

Query Match 35.1%; Score 691.5; DB 1; Length 405;
Best Local Similarity 38.8%; Pred. NO. 2.4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

15 NCITLIGCFMAC-LIITY-KPTNSWVSPMESASVLMKNEFSTKNDYNETTILV 68
16 VCVLAAGLTCTALTTCWCOLPLPMA-SPPS-----RPVGVLL 115
17 WWPFGOTFDL-TSCQAMFNIQCHLTDRSLYNKSHAVLIHHRDI-SW----- 115
18 69 WWPFGOTFDL-TSCQAMFNIQCHLTDRSLYNKSHAVLIHHRDI-SW----- 115
19 69 WWPFGOTFDL-TSCQAMFNIQCHLTDRSLYNKSHAVLIHHRDI-SW----- 115
20 116 -----DLTNLPQO-----ARPPQKWMNMLESPHTP-OKSGIEHL 151
21 129 GIOATFAEVLDRLVDEEAAAALATSSPPGQKVMNMFESPSHSGSLASNL 188
22 152 FNTLTFRSDIOVPYGLFVSTNPFVEVPS-----KEKLVQVVSNNMPEHARY 203
23 189 FNTLTFRSDIOVPYGLFVSTNPFVEVPS-----KEKLVQVVSNNMPEHARY 203
24 204 KYNELSKSIEHTYGOAF-GEYNDKRLIPTSTCKFYLSFENSJHNDYTERKLY-NAF 261
25 247 RYHQLSQHTVDFVGRGSGQVPEIGLHTVARKFYLAFFNSQHDYTERKLMRAL 306
26 262 LAGSPVYLGSRENTYTPADSFTHVEDPNSPELAKYKEVDKNNKLYSTENMRKD 321
27 307 LAGAPVYVIGPDRANRYERFVPRGAFIHVDPFSSASLASLYLLFDNRPAVYRRYFHWRRS 366
28 322 FTVNLPFWESHACIADCHVKRHOEY-KSYGNLEKMF 357
29 367 YAVHITSFWDPEWCRVCAVGRAGDRPKSRINLASWF 403

RESULT 5
US-08-393-246-8
Sequence 8, Application US/08393246

GENERAL INFORMATION:
PATENT NO. 5595900
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, AND FOR THE ISOLATION OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, AND FOR THE ISOLATION OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/393,246
CLASSIFICATION: 530
PRIOR APPLICATION NUMBER: US 08/220,433
FILING DATE: 30-MAR-1994
APPLICATION NUMBER: US 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION/DOCKET NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEFAX: (703)486-2347
TELEFAX: 248655 OPAT UR
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-393-246-8

Query Match 35.1%; Score 691.5; DB 1; Length 405;
Best Local Similarity 38.8%; Pred. NO. 2.4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

15 NCITLIGCFMAC-LIITY-KPTNSWVSPMESASVLMKNEFSTKNDYNETTILV 68
16 VCVLAAGLTCTALTTCWCOLPLPMA-SPPS-----RPVGVLL 115
17 WWPFGOTFDL-TSCQAMFNIQCHLTDRSLYNKSHAVLIHHRDI-SW----- 115
18 69 WWPFGOTFDL-TSCQAMFNIQCHLTDRSLYNKSHAVLIHHRDI-SW----- 115
19 69 WWPFGOTFDL-TSCQAMFNIQCHLTDRSLYNKSHAVLIHHRDI-SW----- 115
20 116 -----DLTNLPQO-----ARPPQKWMNMLESPHTP-OKSGIEHL 151
21 129 GIOATFAEVLDRLVDEEAAAALATSSPPGQKVMNMFESPSHSGSLASNL 188
22 152 FNTLTFRSDIOVPYGLFVSTNPFVEVPS-----KEKLVQVVSNNMPEHARY 203
23 189 FNTLTFRSDIOVPYGLFVSTNPFVEVPS-----KEKLVQVVSNNMPEHARY 203
24 204 KYNELSKSIEHTYGOAF-GEYNDKRLIPTSTCKFYLSFENSJHNDYTERKLY-NAF 261
25 247 RYHQLSQHTVDFVGRGSGQVPEIGLHTVARKFYLAFFNSQHDYTERKLMRAL 306
26 262 LAGSPVYLGSRENTYTPADSFTHVEDPNSPELAKYKEVDKNNKLYSTENMRKD 321
27 307 LAGAPVYVIGPDRANRYERFVPRGAFIHVDPFSSASLASLYLLFDNRPAVYRRYFHWRRS 366
28 322 FTVNLPFWESHACIADCHVKRHOEY-KSYGNLEKMF 357
29 367 YAVHITSFWDPEWCRVCAVGRAGDRPKSRINLASWF 403

RESULT 6
US-08-525-058A-8
Sequence 8, Application US/08525058A

GENERAL INFORMATION:
PATENT NO. 5770420
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, AND FOR THE ISOLATION OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS, AND FOR THE ISOLATION OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,058A
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION/DOCKET NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEFAX: 248655 OPAT UR
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid

Fri Nov 22 13:32:37 2002

us-09-744-748-1.ra1

Page 4

TOPOLGY: linear
MOLECULE TYPE: protein
US-08-525-058A-8

Query Match 35.1%; Score 691.5; DB 1; Length 405;
Best Local Similarity 38.8%; Pred. No. 2.4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

15 VCIILGCFMAC--LLIYI---KPTNSWTFSPMESASVYLKKMFSTKTDYFNETTILV 68
16 VCIILGCFMAC--LLIYI---KPTNSWTFSPMESASVYLKKMFSTKTDYFNETTILV 68
28 VCVAAGAGLCTALITACWGLPLPWA-SPTPS-----RPVGVLL 68
69 WWPFGQTFDL-----TSCQAMFNIQCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
69 WWPFGQTFDL-----TSCQAMFNIQCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
69 WWPFGQTFDL-----TSCQAMFNIQCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
116 -----DLTNLPQ-----APPFOKWTMNLSPHTP-QKSGIEHL 151
129 GIOAHTAEVDLVLVDEEAAAAAALATSSPRPGQRMWMMFESSHSPGLRSLANL 188
152 FNLITFRSDIOVYGFELTVSTNPFVEEVS-----KEKLYCWVWSMNEHARY 203
189 FNMILSTRADSDVFPYGLYPRSH--GDPSGLAPLSRKQGLAVAVWSHMDERQARY 246
204 KYNELSKSIEIHTYQAF-GEVYNDKMLIPTISTCKFYLSFENSIIHKDYTEKLY-NAF 261
247 RYHQLSOHTVYVFGRGQGPVEIGLHTVAKFYLAFFENSCHLDYITEKLMRNL 306
262 LAGVAVVVLGPRENENYIPADSETHVEDFNSPELAKYKEVDKNNKLYSTYNNKRD 321
307 LAGVAVVVLGPRENENYIPADSETHVEDFNSPELAKYKEVDKNNKLYSTYNNKRD 321
322 ETVNLPRFESHACLDHVKRHOEY-KSVGNLEKMF 357
367 YAVHTSWDEPWCRCQAVQAGRAGDRPKSIRNLASMF 403

RESULT 7
US-08-696-731-8
Sequence 8, Application US/08696731
Patent No. 5953547

GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/696,731
FILING DATE: 14-AUG-1996
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/393,246
FILING DATE:
APPLICATION NUMBER: US 08/220,433
FILING DATE: 30-MAR-1994
APPLICATION NUMBER: US 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:

NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAF UR
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-696-731-8

Query Match 35.1%; Score 691.5; DB 2; Length 405;
Best Local Similarity 38.8%; Pred. No. 2.4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

15 VCIILGCFMAC--LLIYI---KPTNSWTFSPMESASVYLKKMFSTKTDYFNETTILV 68
16 VCIILGCFMAC--LLIYI---KPTNSWTFSPMESASVYLKKMFSTKTDYFNETTILV 68
28 VCVAAGAGLCTALITACWGLPLPWA-SPTPS-----RPVGVLL 68
69 WWPFGQTFDL-----TSCQAMFNIQCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
69 WWPFGQTFDL-----TSCQAMFNIQCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
69 WWPFGQTFDL-----TSCQAMFNIQCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
116 -----DLTNLPQ-----APPFOKWTMNLSPHTP-QKSGIEHL 151
129 GIOAHTAEVDLVLVDEEAAAAAALATSSPRPGQRMWMMFESSHSPGLRSLANL 188
152 FNLITFRSDIOVYGFELTVSTNPFVEEVS-----KEKLYCWVWSMNEHARY 203
189 FNMILSTRADSDVFPYGLYPRSH--GDPSGLAPLSRKQGLAVAVWSHMDERQARY 246
204 KYNELSKSIEIHTYQAF-GEVYNDKMLIPTISTCKFYLSFENSIIHKDYTEKLY-NAF 261
247 RYHQLSOHTVYVFGRGQGPVEIGLHTVAKFYLAFFENSCHLDYITEKLMRNL 306
262 LAGVAVVVLGPRENENYIPADSETHVEDFNSPELAKYKEVDKNNKLYSTYNNKRD 321
307 LAGVAVVVLGPRENENYIPADSETHVEDFNSPELAKYKEVDKNNKLYSTYNNKRD 321
322 ETVNLPRFESHACLDHVKRHOEY-KSVGNLEKMF 357
367 YAVHTSWDEPWCRCQAVQAGRAGDRPKSIRNLASMF 403

RESULT 8
US-09-042-531-8
Sequence 8, Application US/09042531
Patent No. 6268193

GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:


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; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Suite 400
; CITY: Arlington
; STATE: Virginia
; ZIP: 22202
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US91/00899
; FILING DATE: 19910214
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: LaValleye Ph.D., Jean-Paul
; REGISTRATION NUMBER: 31,451
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-5940
; TELEFAX: (703)486-2347
;
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 299 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: Linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; FRAGMENT TYPE: C-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Blood
; CELL LINE: A431
;
; PCT-US91-00899-6

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Query Match          34.0%; Score 670; DB 5; Length 299;
Best Local Similarity 43.4%; Pred. No. 1,8e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;

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QY 66 ILVWVPGGTFDLTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHRDISMDL-----TN 119
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DB 3 ILMTWPFHPIVALSLSCSEMVPGTACHITADRKVYQADVIYVH---WDIMSNPKSR 58
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QY 120 LPQARPPFOKIMWMLNLESPHTPQKSGIEHLNLTLYRRSDIOVYGFITV-STNPF 178
   || || || || || || || || || || || || || || || || || || || || ||
DB 59 LPSPRPGOGRWIMFNLPPNCOHLEALDRYFNLTMSYRSDSIFTPYGMLEPMGQPA 118
   || || || || || || || || || || || || || || || || || || || || ||
QY 179 --VEFVPSKEKLVGVWVNMNPEHARVRYNLSKSIETHTYGOAFGEYVNDKNLIPTIS 236
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DB 119 HPIPLMSAKTELAVAMVSNMKNKPDASARVRYQSLQAHLKVDYGRSH-KPLPKGTMMETLS 177
   || || || || || || || || || || || || || || || || || || || || ||
QY 237 TCKEYLSFENSIRKDIYTEKLY-NAFLAGSVPVYLGSRREYENYIPADSFTHVEDNSP 295
   || || || || || || || || || || || || || || || || || || || || ||
DB 178 RKRYTLAFENSLHPDIYTEKLRNLEMAVAVPVYLGSRSTYERFLPDAFIHVDDQSP 237
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QY 296 SELAKYIKVEDKNKKLYLSTFYNMKDFTVNLPR--FWESHACLADHYKROEYKSVGNL 353
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DB 238 KDLARYLQELDKDHARYLSYFRWRETLR--PRFSWALDFCKACWKLOESRYQTVRSI 294
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RESULT 11
US-07-914-281-2
; Sequence 2, Application US/07914281
; Patent No. 5324663
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,

```

```

; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ORLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESS: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/914,281
; FILING DATE: 19920720
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: LaValleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
;
; US-07-914-281-2

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Query Match          34.0%; Score 670; DB 1; Length 361;
Best Local Similarity 43.4%; Pred. No. 2.4e-56;
Matches 137; Conservative 54; Mismatches 98; Indels 20; Gaps 9;

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QY 66 ILVWVPGGTFDLTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHRDISMDL-----TN 119
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QY 120 LPQARPPFOKIMWMLNLESPHTPQKSGIEHLNLTLYRRSDIOVYGFITV-STNPF 178
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DB 121 LPSPRPGOGRWIMFNLPPNCOHLEALDRYFNLTMSYRSDSIFTPYGMLEPMGQPA 180
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QY 179 --VEFVPSKEKLVGVWVNMNPEHARVRYNLSKSIETHTYGOAFGEYVNDKNLIPTIS 236
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DB 181 HPIPLMSAKTELAVAMVSNMKNKPDASARVRYQSLQAHLKVDYGRSH-KPLPKGTMMETLS 239
   || || || || || || || || || || || || || || || || || || || || ||
QY 237 TCKEYLSFENSIRKDIYTEKLY-NAFLAGSVPVYLGSRREYENYIPADSFTHVEDNSP 295
   || || || || || || || || || || || || || || || || || || || || ||
DB 240 RKRYTLAFENSLHPDIYTEKLRNLEMAVAVPVYLGSRSTYERFLPDAFIHVDDQSP 299
   || || || || || || || || || || || || || || || || || || || || ||
QY 296 SELAKYIKVEDKNKKLYLSTFYNMKDFTVNLPR--FWESHACLADHYKROEYKSVGNL 353
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QY 354 EKWF 357
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DB 357 AAMF 360

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RESULT 12
US-08-393-246-2
; Sequence 2, Application US/08393246
; Patent No. 5395900
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,

```

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; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: P.C.
; ADDRESS: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/393,246
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/220,433
; FILING DATE: 30-MAR-1994
; APPLICATION NUMBER: US 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET INFORMATION: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-393-246-2

Query Match          34.0%; Score 670; DB 1; Length 361;
Best Local Similarity 43.4%; Pred. No. 2.4e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;

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; Patent No. 5625124
; GENERAL INFORMATION:
; APPLICANT: Falk, Per
; APPLICANT: Gordon, Jeffrey I.
; TITLE OF INVENTION: Animal Model for Gastro-Intestinal
; TITLE OF INVENTION: Disease
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 1100 Peachtree Street, Suite 2800
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30309-4530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/273,411
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET INFORMATION:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 815-6508
; TELEFAX: (404) 815-6555
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: Internal
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: 1..361
; OTHER INFORMATION: /note="GDP-L-fucose:beta-D-N-acetylglucosaminide-3,4-alp
; PUBLICATION INFORMATION:
; AUTHORS: Kukowska-Latallo, et al.
; JOURNAL: Genes & Development
; VOLUME: 4
; PAGES: 1288-1303
; DATE: 1990
; RELEVANT RESIDUES IN SEQ ID NO: 3: FROM 1 TO 361
; US-08-273-411-3

Query Match          34.0%; Score 670; DB 1; Length 361;
Best Local Similarity 43.4%; Pred. No. 2.4e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;

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Fri Nov 22 13:32:37 2002

us-09-744-748-1.ra1

Page 8

OY 296 SELAKYLEVDKNNKLYLSTFNMWRKDFVNLPR--FWESHACLADHYKHOEYKSVGNL 353
DB 300 KDLARYLOELDKDHARLYLSTFNMWRKDFVNLPR--FWESHACLADHYKHOEYKSVGNL 356
OY 354 EKWF 357
DB 357 AAMF 360

RESULT 14
US-08-525-058A-2
Sequence 2, Application US/08525058A
Patent No. 5770420
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
CORRESPONDENCE ADDRESSES: 23
ADDRESS: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,058A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-525-058A-2

Query Match 34.0%; Score 670; DB 1; Length 361;
Best Local Similarity 43.4%; Pred. No. 2, 4e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;
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DB 65 ILVWVWPGQGFEDLTSCGAMF-NIOGCHLTDDSLYKSHAVLIHHRDISMDL-----TN 119
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OY 237 TCFEYLFSEFNSIKHDYITTEKLY-NAFLASVYVUGSPRESENTYIPADSEIHVEDNSP 295
DB 240 RYFYFLAFENSLHPDYITTEKIMRNMLEAWAVVGLSPSRNTERFLPPDAFIHVDDEOSP 299
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DB 300 KDLARYLOELDKDHARLYLSTFNMWRKDFVNLPR--FWESHACLADHYKHOEYKSVGNL 356
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DB 357 AAMF 360

RESULT 15
US-08-696-731-2
Sequence 2, Application US/08696731
Patent No. 595347
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
CORRESPONDENCE ADDRESSES: 14
ADDRESS: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/696,731
FILING DATE: 14-AUG-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/393,246
FILING DATE:
APPLICATION NUMBER: US 08/220,433
FILING DATE: 30-MAR-1994
APPLICATION NUMBER: US 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-696-731-2

Query Match 34.0%; Score 670; DB 2; Length 361;
Best Local Similarity 43.4%; Pred. No. 2, 4e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;
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DB 65 ILVWVWPGQGFEDLTSCGAMF-NIOGCHLTDDSLYKSHAVLIHHRDISMDL-----TN 119
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DB 121 LPSPRPGOGWIMFNLPPNCHLEADRYNLTMSTRSDIFTTPGWTLEPWSGPA 180
OY 179 --VEEVSKRELVCWVSNMNPCHARYKYNELSKSIEIHTYGOAFGEVYDNKNLPIPTIS 236

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Db 357 AAWF 360
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 Job time : 13 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 22, 2002, 13:31:58 ; Search time 8 Seconds

(without alignments)
702.810 Million cell updates/sec

Title: US-09-744-748-1

Perfect score: 1970
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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 100480 seqs, 15661496 residues

Total number of hits satisfying chosen parameters: 100480

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications_AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCIT_NEW_PUB.pep:*
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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	768.5	39.0	355	10 US-09-733-524-8	Sequence 8, Appl1
3	706	35.8	433	9 US-10-120-319-11	Sequence 11, Appl1
4	691.5	35.1	405	10 US-09-863-475A-8	Sequence 8, Appl1
5	678.5	34.4	432	10 US-09-733-524-7	Sequence 7, Appl1
6	670	34.0	361	10 US-09-863-475A-2	Sequence 2, Appl1
7	670	34.0	374	10 US-09-863-475A-11	Sequence 11, Appl1
8	665.5	33.8	359	9 US-10-120-319-10	Sequence 10, Appl1
9	665.5	33.8	359	10 US-09-863-475A-14	Sequence 14, Appl1
10	662	33.6	358	10 US-09-733-524-6	Sequence 6, Appl1
11	657	33.4	365	9 US-10-120-319-9	Sequence 9, Appl1
12	612.5	31.1	364	10 US-09-733-524-5	Sequence 5, Appl1
13	582	29.5	393	10 US-09-784-077-2	Sequence 2, Appl1
14	270	13.7	406	10 US-09-731-872-284	Sequence 284, App
15	149	7.6	454	9 US-10-120-319-8	Sequence 8, Appl1
16	149	7.6	454	10 US-09-733-524-18	Sequence 18, Appl1
17	148.5	7.5	479	10 US-09-733-524-17	Sequence 17, Appl1
18	145	7.4	372	9 US-10-120-319-13	Sequence 13, Appl1
19	145	7.4	464	9 US-10-120-319-1	Sequence 1, Appl1

20	145	7.4	478	9 US-10-120-319-7	Sequence 7, Appl1
21	145	7.4	501	10 US-09-733-524-1	Sequence 1, Appl1
22	144	7.3	440	9 US-10-120-319-3	Sequence 3, Appl1
23	144	7.3	440	10 US-09-733-524-3	Sequence 3, Appl1
24	133.5	6.8	424	10 US-09-733-524-16	Sequence 16, Appl1
25	133.5	6.8	425	9 US-10-120-319-6	Sequence 6, Appl1
26	133	6.8	485	10 US-09-733-524-2	Sequence 2, Appl1
27	133	6.8	486	9 US-10-120-319-2	Sequence 2, Appl1
28	131.5	6.7	476	9 US-10-120-319-5	Sequence 5, Appl1
29	131.5	6.7	476	10 US-09-733-524-15	Sequence 15, Appl1
30	96.5	4.9	760	10 US-09-265-606-2	Sequence 2, Appl1
31	95.5	4.8	370	9 US-10-086-623-8	Sequence 8, Appl1
32	95.5	4.8	370	10 US-09-823-033-5	Sequence 5, Appl1
33	95.5	4.8	370	10 US-09-808-972-2	Sequence 2, Appl1
34	95.5	4.8	370	10 US-09-915-582-56	Sequence 56, Appl1
35	95	4.8	1480	9 US-09-568-756-2	Sequence 2, Appl1
36	91.5	4.6	2000	12 US-10-010-901-29	Sequence 29, Appl1
37	90.5	4.6	433	10 US-09-784-911-8	Sequence 8, Appl1
38	89.5	4.5	370	10 US-09-915-582-74	Sequence 74, Appl1
39	89.5	4.5	517	10 US-09-815-242-5722	Sequence 5722, Ap
40	89.5	4.5	517	10 US-09-815-242-12650	Sequence 12650, A
41	88.5	4.5	1263	10 US-09-864-761-46846	Sequence 46846, A
42	88.5	4.5	1706	10 US-09-864-761-46862	Sequence 46862, A
43	88	4.5	1086	10 US-09-924-154-15	Sequence 15, Appl1
44	87.5	4.4	382	10 US-09-993-844-4	Sequence 4, Appl1
45	86.5	4.4	409	10 US-09-761-962-27	Sequence 27, Appl1

ALIGNMENTS

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RESULT 1
US-10-120-319-12
Sequence 12, Application US/10120319
; Patent No.: US2002016479A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120, 319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1998-06-05
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-120-319-12

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Best Local Similarity 50.3%; Pred. No. 5.7e-61;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;

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DB 56 EYTVLLMEPPFGRPPRPDCRRRYNITGCLLSADRGYGEARAVLFHHRDLALHGRGIP 115
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

OY 122 Q--QARRPQKIMWNNTSPHTPKSGIEHFNLTITVRRSDSDQVYGFITVSTNFPV 179
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OY 180 FEVPSKERLVGVVSNMDEHARVYNYELSKSIIHYHGAFGYVDKNLPIPTSTCK 239
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OY 240 FYLSFENSIMKDYITEKLY-NAFLAGSVPVYLGSRENTENYIPADSFTHVEDFNSPSEL 298
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DB 235 FYLAFENSQHTDYITEKLMKNFAASAVPVYLGPRRANVYERRIPADSFTHVDFFSPRL 294
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; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-863-475A-2

Query Match          34.0%; Score 670; DB 10; Length 361;
Best Local Similarity 43.4%; Pred. No. 1.6e-50;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;

OY 66 ILVWVWPGQTFDLTSCQAMF-NIGGCHLTDRSLYKSHAVLIHHRDISMDL-----TN 119
DB 65 ILMTWPFNHPVALRSCSEKVPQTADCHITADRKVYPQADVIYVHH---WDMSPKSR 120
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DB 121 LPPSPRQGGWIMFNLEPPNCOHLEALDRYFNLTMSYRSDIPTFGWLEPWSGGQA 180
OY 179 --VEEVPSEKELVCWVNMNPEHARVKYNNELSKSIEIHTYGOAFGEYVNDKNLIPTIS 236
DB 181 HPLNLAKTELVAWAVSNMKPDSARVRYOSLOAHLKVYGRSH-KPLPKGTMMETLS 239
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DB 240 RYKFYLAERSLHPDYITERKLMRNALAWAVPVYLGPSRSNERFLPPDAFIHVDFQSP 299
OY 296 SELAKYLEVDKNNKLYLSYFNMRKDFVNLPR--FMESHACLACDHVKRHOEYKSGVNL 353
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CY 354 EKMF 357
DB 357 AAMF 360

RESULT 7
US-09-863-475A-11
; Sequence 11, Application US/09863475A
; Patent No. US20020102688A1
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; OF GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBION, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,475A
; FILING DATE: 24-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavallee, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-863-475A-11

Query Match          34.0%; Score 670; DB 10; Length 374;
Best Local Similarity 44.0%; Pred. No. 1.7e-50;
Matches 132; Conservative 57; Mismatches 99; Indels 12; Gaps 8;

OY 66 ILVWVWPGQTFDLTSCQAMF-NIGGCHLTDRSLYKSHAVLIHHRDISMD-LTNLPQ 123
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DB 198 NLAKTELVAWAVSNMKPDSARVRYOSLOAHLKVYGRSH-KPLPKGTMMETLSRYKF 256
OY 241 YLSFENSIHKDYTERKLY-NAFLAGSVPVYLGPSRENEYTPADSFIVHEDFNPSSELA 299
DB 257 YLAFENSLHPDYITERKLMRNALAWAVPVYLGPSRSNERFLPPDAFIHVDFQSPKDLA 316
OY 300 KYLEKVDKNNKLYLSYFNMRKDFVNLPR--FMESHACLACDHVKRHOEYKSGVNEKMF 357
DB 317 RYLOELDKHARLYSYFRWRETLR---PRFSWALDFCKACWKLQOESRYQTVRSIAAMF 373

RESULT 8
US-10-120-319-10
; Sequence 10, Application US/10120319
; Patent No. US20020164749A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-120-319-10

Query Match          33.8%; Score 665.5; DB 9; Length 359;
Best Local Similarity 43.1%; Pred. No. 3.9e-50;
Matches 134; Conservative 58; Mismatches 106; Indels 13; Gaps 9;

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 Db 349 YQTRG-IAAMF 358

RESULT 9
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 ; Sequence 14, Application US/09863475A
 ; Patent No. US20020102688A1
 ; GENERAL INFORMATION:
 ; APPLICANT: LOWE, JOHN B.
 ; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 ; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 ; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 ; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 ; P.C.
 ; STREET: 1755 Jefferson Davis Highway, Fourth Floor
 ; CITY: Arlington
 ; STATE: Virginia
 ; COUNTRY: U.S.A.
 ; ZIP: 22202
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/863.475A
 ; FILING DATE: 24-May-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/914,281
 ; FILING DATE: 20-JUL-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Lavalleye, Jean-Paul M. P.
 ; REGISTRATION NUMBER: 31,451
 ; REFERENCE/DOCKET NUMBER: 2363-060-55
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (703)521-4500
 ; TELEFAX: (703)486-2347
 ; TELEX: 248855 OPAT UR
 ; INFORMATION FOR SEQ ID NO: 14:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 359 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 14:
 US-09-863-475A-14

Query Match 33.8%, Score 665.5; DB 10; Length 359;
 Best Local Similarity 43.1%, Pred. No. 3.9e-50;
 Matches 134; Conservative 58; Mismatches 106; Indels 13; Gaps 9;
 Qy 55 SKTIDYFNETTLVWVWFGQFDLTSCQAMF-NIOGCHLTDRSLYKSHAVLIHHDI 113
 Db 53 STGTPAHSIPLILMTWPFNKPDLAPRCESEVPGTADCNITADRKYVQADAVIVHREY 112

Qy 114 SMD-LTNLPQOARPPFOQKIMMNLSPHTPQKSGIEHLFNLTLYRRDSIOVYGFYT 172
 Db 113 MYNPSAQLPRSPRRGQGWIMFSMSPHCWQKAMDGYFNLMTSYRSDSIFTPYGLLE 172
 Qy 173 V-STNPF--VEEVPSEKELVCVWSNNMPEHARVYVELSKSIEIHTYGAFGGYVNDK 229
 Db 173 PWSGQPAHPPLNLSAKTELVAAMVSNMGPNSARVRYOSLOAHKLVDYGRSH-KPLPQG 231
 Qy 230 NLIPISTCKFYLSFENSIIHDYITEKLY-NAFLAGSVPVVLGSPREVENTIPADSTIH 288
 Db 232 TMMETLSYKFFYLAFENSLHPDYITEKLMRNLEAMAVPVVLGSPRSYTERFLPPDAFIH 291
 Qy 289 VEDFNSPSELAKYKLEVDKNNKLYLSTYFNWKRDFTVNLPR--FWESHACIACDHVKRHOE 346
 Db 292 VDDFQSPKDLARYLOELDKDARILSTYRWKETLR---PRFSMALATCKKACWKLOEESR 348
 Qy 347 YKSVGNLEKWF 357
 Db 349 YQTRG-IAAMF 358

RESULT 10
 US-09-733-524-6
 ; Sequence 6, Application US/09733524
 ; Patent No. US20020068347A1
 ; GENERAL INFORMATION:
 ; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
 ; APPLICANT: Taylor, Diane E.
 ; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
 ; FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
 ; TITLE OF INVENTION: EXPRESSING THEM
 ; FILE REFERENCE: 07254/049002
 ; CURRENT APPLICATION NUMBER: US/09/733.524
 ; CURRENT FILING DATE: 2000-12-14
 ; PRIOR APPLICATION NUMBER: 09/092,315
 ; PRIOR FILING DATE: 1998-06-05
 ; PRIOR APPLICATION NUMBER: 60/048,857
 ; PRIOR FILING DATE: 1997-06-06
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 6
 ; LENGTH: 358
 ; TYPE: PRY
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (0)..(0)
 ; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Hfuct6
 US-09-733-524-6

Query Match 33.6%, Score 662; DB 10; Length 358;
 Best Local Similarity 43.4%, Pred. No. 7.8e-50;
 Matches 135; Conservative 58; Mismatches 104; Indels 14; Gaps 10;
 Qy 55 SKTIDYFNETTLVWVWFGQFDLTSCQAMF-NIOGCHLTDRSLYKSHAVLIHHDI 113
 Db 53 STGTPAHSIPLILMTWPFNKPDLAPRCESEVPGTADCNITADRKYVQADAVIVHREY 112
 Qy 114 SMD-LTNLPQOARPPFOQKIMMNLSPHTPQKSGIEHLFNLTLYRRDSIOVYGFYT 172
 Db 113 MYNPSAQLPRSPRRGQGWIMFSMSPHCWQKAMDGYFNLMTSYRSDSIFTPYGLLE 172
 Qy 173 V-STNPF--VEEVPSEKELVCVWSNNMPEHARVYVELSKSIEIHTYGAFGGYVNDK 229
 Db 173 PWSGQPAHPPLNLSAKTELVAAMVSNMGPNSARVRYOSLOAHKLVDYGRSH-KPLPQG 231
 Qy 230 NLIPISTCKFYLSFENSIIHDYITEKLY-NAFLAGSVPVVLGSPREVENTIPADSTIH 288
 Db 232 TMMETLSYKFFYLAFENSLHPDYITEKLMRNLEAMAVPVVLGSPRSYTERFLPPDAFIH 291
 Qy 289 VEDFNSPSELAKYKLEVDKNNKLYLSTYFNWKRDFTVNLPR--FWESHACIACDHVKRHOE 346

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us-09-744-748-1.rapb

Page 6

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Db 292 VDDPSPKDLARYLQELDKDHR-VLSYFRMRTEL---PRFSWALAFCKACWKLOEBSR 347
QY 347 YKSVGNLEKMF 357
Db 348 YOTRG-LAAMF 357

RESULT 11
US-10-120-319-9
; Sequence 9, Application US/10120319
; Patent No. US2002016479A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-120-319-9

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Matches 143; Conservative 66; Mismatches 117; Indels 42; Gaps 12;

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Db 18 PGLLQQLLALCFEYGLRMSQEKPRKPMWVSELGAPSOATEGSAHLPLR----- 68
QY 61 FNETTILVWVPPGQTFDLTSCQAMF-NIOGCHLTDRSLYKNSHAVLIHRDISW-DLT 118
Db 69 -----VLTMTWPFNOVALSRCESELPQTADQCLTVNRSEYPOADAVFVHHREVSHPKRM 123
QY 119 NLPOQARPPQKYMWNLESPHTPOKSGIEHFNLTITLRDSDIOVYGF-----T 172
Db 124 QLPSPRPADQKRWVFSMESPSNCKLADLDGTFNLMSTRDSDITFMYGMLPEPSPQ 183
QY 173 VSTNPFVEYPSKEKLYCQVSNMNPENHARVYKYNELSKSIEIHTYGOAFGEYVNDKNLI 232
Db 184 VET---LNTSAKTLVAVVSNMNTDSIRVYIKLKLPHLDVYGR-FHPLPHALMA 239
QY 233 PTISTCKEYLSFENSHIKDYITEKLY-NAFLAGSVPVYIGPREYENYIPADSFTHVED 291
Db 240 KQLSQKFIYLAENSLHPYITEKLMKNLQAMAVPVYIGPSRVNVEQFLPKAFIHYED 299
QY 292 FNSPSRLAYLKEVDKNNKLYLSYFNMRKDFVNLPR--FMESHACLADHVRHOEKS 349
Db 300 FQSPKRLAQYLLALDKDYSLYNTYFMRTEL---PRFSWALMFCACWKLOEBSRYOT 356
QY 350 VGNLEKMF 357
Db 357 VPSIASMF 364

RESULT 12
US-09-733-524-5
; Sequence 5, Application US/09733524
; Patent No. US20020068347A1
; GENERAL INFORMATION:
; APPLICANT: The governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
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; TITLE OF INVENTION: EXPRESSING THEM
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Bos taurus
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Binct3
US-09-733-524-5

Query Match
Best Local Similarity 31.1%; Score 612.5; DB 10; Length 364;
Matches 139; Conservative 63; Mismatches 123; Indels 43; Gaps 13;

QY 11 PELVICIIIG-CFMACLLI---YIKPTNSWV-----FSPMESASSVLMKKNFESTKTDY 60
Db 18 PGLLQQLLALCFEYGLRMSQEKPRKPMWVSELGAPSOATEGSAHLPLR----- 68
QY 61 FNETTILVWVPPGQTFDLTSCQAMF-NIOGCHLTDRSLYKNSHAVLIHRDISW-DLT 118
Db 69 -----VLTMTWPFNOVALSRCESELPQTADQCLTVNRSEYPOADAVFVHHREVSHPKRM 123
QY 119 NLPOQARPPQKYMWNLESPHTPOKSGIEHFNLTITLRDSDIOVYGF-----T 172
Db 124 QLPSPRPADQKRWVFSMESPSNCKLADLDGTFNLMSTRDSDITFMYGMLPEPSPQ 183
QY 173 VSTNPFVEYPSKEKLYCQVSNMNPENHARVYKYNELSKSIEIHTYGOAFGEYVNDKNLI 232
Db 184 VET---LNTSAKTLVAVVSNMNTDSIRVYIKLKLPHLDVYGR-FHPLPHALMA 239
QY 233 PTISTCKEYLSFENSHIKDYITEKLY-NAFLAGSVPVYIGPREYENYIPADSFTHVED 291
Db 240 KQLSQKFIYLAENSLHPYITEKLMKNLQAMAVPVYIGPSRVNVEQFLPKAFIHYED 299
QY 292 FNSPSRLAYLKEVDKNNKLYLSYFNMRKDFVNLPR--FMESHACLADHVRHOEKS 349
Db 300 FQSPKRLAQYLLALDKDYS-YLNTYFRMRTEL---PRFSWALMFCACWKLOEBSRYOT 355
QY 350 VGNLEKMF 357
Db 356 VPSIASMF 363

RESULT 13
US-09-784-077-2
; Sequence 2, Application US/09784077
; Patent No. US2002011469A1
; GENERAL INFORMATION:
; APPLICANT: NATSUKA, SHUNJI
; APPLICANT: GERSTEN, KEVIN M.
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: MURINE ALPHA (1,3) FUCOSYLTRANSFERASE
; SAME, ANTIBODIES RECOGNIZING THE SAME, METHOD FOR PREPARING TH
; SAME, ANTIBODIES RECOGNIZING THE SAME, IMMUNOASSAYS FOR
; DETECTING THE SAME, PLASMIDS CONTAINING SUCH DNA
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBION, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
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Query Match 7.6%; Score 149; DB 9; Length 454;
 Best Local Similarity 25.9%; Pred. No. 2e-05;
 Matches 75; Conservative 46; Mismatches 113; Indels 56; Gaps 13;

Fri Nov 22 13:32:38 2002

us-09-744-748-1.rapb

Page 8

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DB 115 FR-----DRYLMPLLYDRLHKKAESVNDTAPRKIGN---SLYTLKKPSHCFK--- 161
QY 148 IEHLENLTLYRRSDSDIQVPYGFVSTNPFVEVPSKEKLVCMWVYSNMNPEHARVRYN 207
DB 162 -ENHPRLCALINNESD-----PLKRGFASFVASNANAP-MRRAFYD 200
QY 208 ELKSISIEHTYGOA---FGXYVNDKNLPTISTCKEYLSFENSIMKDYITEKLYNAFLA 263
DB 201 ALN-SIEPYTGGGAVAKNTLGYKVGKNS--EPLSQYKFNLCFENSOGYGYTEKIIDAYFS 257
QY 264 GSPVVLGSPRENYENIPADSFIVHEDENSPSELAKYLEVDKNNKLYL 313
DB 258 HTIPYIWG-SPSVAKDFNP-KSFVNVHDFNFDIDAIDYRYLHTHPNAVY 305

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Job time : 9 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 22, 2002, 13:30:53 ; Search time 138.5 seconds
(without alignments)
1671.185 Million cell updates/sec

Title: US-09-744-748-1

Perfect score: 1970
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1970	100.0	359	21	US-09-744-748-1
2	1961	99.5	359	21	US-09-744-748-2
3	791	40.2	356	1	PCT-US99-20354-7
4	791	40.2	356	25	US-10-120-319-12
5	791	40.2	356	25	US-10-189-977-12
6	768.5	39.0	355	21	US-09-733-524-8

7	706	35.8	433	25	US-10-120-319-11	Sequence 11, Appl
8	706	35.8	433	25	US-10-189-977-11	Sequence 11, Appl
9	693.5	35.2	405	7	US-08-386-716-8	Sequence 8, Appl1
10	691.5	35.1	405	12	US-08-823-489-8	Sequence 8, Appl1
11	691.5	35.1	405	22	US-09-863-475-8	Sequence 8, Appl1
12	691.5	35.1	405	22	US-09-863-475A-8	Sequence 8, Appl1
13	691	35.1	352	6	US-08-268-505-5	Sequence 5, Appl1
14	691	35.1	352	6	US-08-442-965-5	Sequence 5, Appl1
15	689	35.0	362	10	US-08-657-215A-2	Sequence 5, Appl1
16	678.5	34.4	432	21	US-09-733-524-7	Sequence 7, Appl1
17	677.5	34.4	405	16	US-09-228-966-4	Sequence 4, Appl1
18	677	34.4	365	27	US-60-243-468-887	Sequence 887, App
19	670	34.0	361	12	US-08-823-489-2	Sequence 2, Appl1
20	670	34.0	361	22	US-09-863-475-2	Sequence 2, Appl1
21	670	34.0	361	22	US-09-863-475A-2	Sequence 2, Appl1
22	670	34.0	374	12	US-08-823-489-11	Sequence 11, Appl1
23	670	34.0	374	22	US-09-863-475-11	Sequence 11, Appl1
24	670	34.0	374	22	US-09-863-475A-11	Sequence 11, Appl1
25	665.5	33.8	359	1	PCT-US01-14827-8395	Sequence 8395, Ap
26	665.5	33.8	359	1	PCT-US01-14827-8406	Sequence 8406, Ap
27	665.5	33.8	359	1	PCT-US01-14827-8417	Sequence 8417, Ap
28	665.5	33.8	359	12	US-08-823-489-14	Sequence 14, Appl
29	665.5	33.8	359	22	US-09-863-475-14	Sequence 14, Appl
30	665.5	33.8	359	22	US-09-863-475A-14	Sequence 14, Appl
31	665.5	33.8	359	25	US-10-120-319-10	Sequence 10, Appl
32	665.5	33.8	359	25	US-10-189-977-10	Sequence 10, Appl
33	662	33.6	358	21	US-09-733-524-6	Sequence 6, Appl1
34	657	33.4	365	25	US-10-120-319-9	Sequence 9, Appl1
35	657	33.4	365	25	US-10-189-977-9	Sequence 9, Appl1
36	656	33.3	308	6	US-08-268-505-4	Sequence 4, Appl1
37	656	33.3	308	8	US-08-442-965-4	Sequence 4, Appl1
38	646	32.8	361	1	PCT-US99-20354-5	Sequence 5, Appl1
39	641	32.5	365	1	PCT-US99-20354-6	Sequence 6, Appl1
40	639	32.4	292	22	US-09-844-948-4	Sequence 4, Appl1
41	639	32.4	292	25	US-10-184-648-22	Sequence 22, Appl
42	622	31.6	306	6	US-08-268-505-3	Sequence 3, Appl1
43	622	31.6	306	6	US-08-442-965-3	Sequence 3, Appl1
44	622	31.6	342	6	US-08-268-505-2	Sequence 2, Appl1
45	622	31.6	342	7	US-08-361-306A-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-744-748-1
; Sequence 1, Application US/09744748
; GENERAL INFORMATION:
; APPLICANT: KYOMA HAKKO KOGYO CO., LTD.
; TITLE OF INVENTION: NOVEL PEPTIDE
; FILE REFERENCE: H10-0981N2
; CURRENT APPLICATION NUMBER: US/09/744,748
; CURRENT FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: JPO98/213823
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Mouse
US-09-744-748-1

Query Match 100.0%; Score 1970; DB 21; Length 359;
Best Local Similarity 100.0%; Pred. No. 9,4e-185;
Matches 359; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MTSTSKGILRPFLIYCIILGCFMACLLIYIKRTNSWVSPMSASSYLKMKNFSTKDY 60
OY 61 FNETTILVWVFGQTFDLTSCQAMFNIOGCHLTTRSLYKNSHAVLIHHRDISWDLTNL 120

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Db      61 FNEETILVWVWPGQTFDLTSCQAMFNIGCHLTTDRSLYNKSHAVLIHHRDISMDLTNL 120
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Db      121 PQOARPPQKWIWMNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVPYGFLLVSTNPVVF 180
Qy      181 EYPSKEKLYCWWVSNMNEHARVYKYNELSKSIEHTYGOAFGEYVNDKNLPTISTCKF 240
Db      181 EYPSKEKLYCWWVSNMNEHARVYKYNELSKSIEHTYGOAFGEYVNDKNLPTISTCKF 240
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Qy      301 YLKEVDKNNKLYLSYFNMWKDFTVNLPRFWSHACLADHVYKSHOEVKSGVNLKEMFVN 359
Db      301 YLKEVDKNNKLYLSYFNMWKDFTVNLPRFWSHACLADHVYKSHOEVKSGVNLKEMFVN 359

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RESULT 2

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US-09-744-748-2
Sequence 2, Application US/09744748

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GENERAL INFORMATION:
APPLICANT: KYOKA HAKKO KOGYO CO., LTD.
TITLE OF INVENTION: NOVEL PEPTIDE
FILE REFERENCE: H10-098182
CURRENT APPLICATION NUMBER: US/09/744,748
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: JPO98/213823
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 359
TYPE: PRT
ORGANISM: human
US-09-744-748-2

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Query Match
Best Local Similarity 99.2%; Score 1961; DB 21; Length 359;
Matches 356; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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RESULT 3

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PCT-US99-20354-7
Sequence 7, Application PC/TUS9920354

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GENERAL INFORMATION:
APPLICANT: Cummins, Richard D.
APPLICANT: Nyame, Anthony Kwame

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APPLICANT: DeRose-Boyd, Russell
TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES ENCODING
TITLE OF INVENTION: FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMALS
FILE REFERENCE: 617313-6
CURRENT APPLICATION NUMBER: PCT/US99/20354
PRIOR FILING DATE: 1999-09-03
EARLIER APPLICATION NUMBER: 60/098,922
NUMBER OF SEQ ID NOS: 21
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 356
TYPE: PRT
ORGANISM: Caenorhabditis elegans
FEATURE:
OTHER INFORMATION: CFT-1
PCT-US99-20354-7

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Query Match
Best Local Similarity 40.2%; Score 791; DB 1; Length 356;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;

```

```

Qy      63 ETTIILVWVWPGQTFDLTSCQAMFNIGCHLTTDRSLYNKSHAVLIHHRDISMDLTNL 121
Db      56 ETVTLVWVWPGQTFDLTSCQAMFNIGCHLTTDRSLYNKSHAVLIHHRDISMDLTNL 115
Qy      122 Q--QARPPQKWIWMNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVPYGFLLVSTNPVVF 179
Db      116 KQPPPPQKWIWMNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVPYGFLLVSTNPVVF 175
Qy      180 EYPSKEKLYCWWVSNMNEHARVYKYNELSKSIEHTYGOAFGEYVNDKNLPTISTCK 239
Db      176 EYLPKRSRLVAVVSNMNEHARVYKYNELSKSIEHTYGOAFGEYVNDKNLPTISTCK 234
Qy      240 YLSFENSITHKDYITEKLYNAFLAGSVPVVLGSPRENYENTIPADSFIVHEDNSPEL 298
Db      235 FYLAFENSQHTDYITEKLYNAFLAGSVPVVLGSPRENYENTIPADSFIVHEDNSPEL 294
Qy      299 AYIKKLVKNNKLYSYFNMWKDFTVNLPRFWSHACLADHVYKSHOEVKSGVNLKEMFVN 357
Db      295 AYIKKLVKNNKLYSYFNMWKDFTVNLPRFWSHACLADHVYKSHOEVKSGVNLKEMFVN 354

```

RESULT 4

```

US-10-120-319-12
Sequence 12, Application US/10120319

```

```

GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/10/120,319
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 356
TYPE: PRT
ORGANISM: Gallus gallus
US-10-120-319-12

```

```

Query Match
Best Local Similarity 50.3%; Score 791; DB 25; Length 356;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;

```

```

Qy      63 ETTIILVWVWPGQTFDLTSCQAMFNIGCHLTTDRSLYNKSHAVLIHHRDISMDLTNL 121
Db      56 ETVTLVWVWPGQTFDLTSCQAMFNIGCHLTTDRSLYNKSHAVLIHHRDISMDLTNL 115

```



```

QY 122 Q--QARPPQKWMNLESPHTHTPOKSGIEHLNLTTRDSDIOVPGFLTVSTNPFV 179
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 116 RGPFRPRQRMWMMNESPSSHPSGLAGLGNMTMSYRSDSDVPPYGLTEPPSPRP 175
QY 180 FEVPSKEKLVCMVSNMNEPHARVYKYYNELSKSIEIHTTGQAFGEYVNDKNLIPITSTCK 239
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 176 FVLPRKSRIVAAWVISNMNEHARVRYRLKEHLPIIDVYG-ARGMALLEGSVYKTVSAVK 234
QY 240 FYLSFENSJHKQVITEKLY-NAFLAGSVPVYLGSPRENTENYIPADSFTHVDEFPNSPSEL 298
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 235 FYLAPENSQHTDYITEKLMKNMFAASAVPVYLGPRRANERFIPADSFTHVDEFPSPRL 294
QY 299 AKYLEVDKNNKLYLSYFNMRKDFVNLPRFWSHACIADCHVK-RHOEYKSYGNLEKMF 357
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 295 AYTLKFLDKNKPSRYRFPAMRNKYEVHVHVSFMDHYCKVCEAVRTAGNQLKTQNLAGMF 354

RESULT 5
US-10-977-12
; Sequence 12, Application US/10189977
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/189,977
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: US/09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-189-977-12

Query Match 40.2%; Score 791; DB 25; Length 356;
Best Local Similarity 50.3%; Pred. No. 1.5e-68;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;

QY 63 ETTILVWVPFGOTFDLTSCQAMFNIOGCHLTTRDSLKNKSHAVLIHHRDIS-WDLTNP 121
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 56 EYTVLWMPFGRPMRPADCKRRYNTIGCLLSADRGRTGEARVLFHHRDLHLHGRGRLP 115
QY 122 Q--QARPPQKWMNLESPHTHTPOKSGIEHLNLTTRDSDIOVPGFLTVSTNPFV 179
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 116 RGPFRPRQRMWMMNESPSSHPSGLAGLGNMTMSYRSDSDVFPYGLTEPPSPRP 175
QY 180 FEVPSKEKLVCMVSNMNEPHARVYKYYNELSKSIEIHTTGQAFGEYVNDKNLIPITSTCK 239
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 176 FVLPRKSRIVAAWVISNMNEHARVRYRLKEHLPIIDVYG-ARGMALLEGSVYKTVSAVK 234
QY 240 FYLSFENSJHKQVITEKLY-NAFLAGSVPVYLGSPRENTENYIPADSFTHVDEFPNSPSEL 298
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 235 FYLAPENSQHTDYITEKLMKNMFAASAVPVYLGPRRANERFIPADSFTHVDEFPSPRL 294
QY 299 AKYLEVDKNNKLYLSYFNMRKDFVNLPRFWSHACIADCHVK-RHOEYKSYGNLEKMF 357
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 295 AYTLKFLDKNKPSRYRFPAMRNKYEVHVHVSFMDHYCKVCEAVRTAGNQLKTQNLAGMF 354

RESULT 6
US-09-733-524-8
; Sequence 8, Application US/09733524
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3

```

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; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Gallus gallus
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - CfucT1
US-09-733-524-8

Query Match 39.0%; Score 768.5; DB 21; Length 355;
Best Local Similarity 49.5%; Pred. No. 2.5e-66;
Matches 148; Conservative 50; Mismatches 96; Indels 5; Gaps 5;

QY 63 ETTILVWVPFGOTFDLTSCQAMFNIOGCHLTTRDSLKNKSHAVLIHHRDIS-WDLTNP 121
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 56 EYTVLWMPFGRPMRPADCKRRYNTIGCLLSADRGRTGEARVLFHHRDLHLHGRGRLP 115
QY 122 Q--QARPPQKWMNLESPHTHTPOKSGIEHLNLTTRDSDIOVPGFLTVSTNPFV 180
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 116 RGPFRPRQRMWMMNESPSSHPSGLAGLGNMTMSYRSDSDVPPYGLTEPPSPRP 175
QY 181 EYPSKEKLVCMVSNMNEPHARVYKYYNELSKSIEIHTTGQAFGEYVNDKNLIPITSTCK 240
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 176 VLPKRSRLVAAWVISNMNEHARVRYRLKEHLPIIDVYG-ARGMALLEGSVYKTVSAVK 234
QY 241 YLSFENSJHKQVITEKLY-NAFLAGSVPVYLGSPRENTENYIPADSFTHVDEFPNSPSEL 299
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 235 YLAPENSQHTDYITEKLMKNMFAASAVPVYLGPRRANERFIPADSFTHVDEFPSPRLA 294
QY 300 KYLKEVDKNNKLYLSYFNMRKDFVNLPRFWSHACIADCHVK-RHOEYKSYGNLEKMF 357
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 295 TYLKFLLDKNKPSRYRFPAMRNKYEVHVHVSFMDHYCKVCEAVRTAGNQLKTQNLAGMF 353

RESULT 7
US-10-120-319-11
; Sequence 11, Application US/10120319
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-120-319-11

Query Match 35.8%; Score 706; DB 25; Length 433;
Best Local Similarity 42.7%; Pred. No. 4.7e-60;
Matches 146; Conservative 48; Mismatches 96; Indels 52; Gaps 8;

QY 66 ILVWVMPF-----GOTFDLTSCQAMFNIOGCHLTTRDSLKNKSHAVLIHHRDISWDLTNP 121

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```

Db 92 VLLWMEFRRGGRGYPKSPDCSLRFINISGCLLTDRAAYGGAQAVLFHHRDLVKEHLDP 151
OY 122 QO-----ARPFQKIMWNLESPTHTPOKSG 147
Db 152 PPMGARRTDKALVLRVEDDQCAVTLGKALETVGSRPRPGQRMWMMNESPSHTDGLRG 211
OY 148 I-EHLEFNLITTYRRSDIOVPYGFVTSTNPFVEVPS-----KEKLYCWMVSNMNP 198
Db 212 LAKLFNWLITSTRTSDVFPVPGFLYSRSDP--TEQPSGJGAPOLARRGILVAVVSNMNE 269
OY 199 EHARVKKYNELSKSIEIHTYGOAF-GEYVNDKNLIPTISTCKEYLSFENSIRHXYTEKL 257
Db 270 HQAVRYYHQLSRHVSVDVFGRTGPRVPAIGLHTVARKKYLAFENSRIHVDYTEKL 329
OY 258 Y-NAFLAGVPPVVLGSRRENYENYIPADSFTHVEDFNSPSELAKYLEVDKNNKLYLSYF 316
Db 330 WRNAFLAGAVPVVILGPDNRANERFVRGCAFTHVDFFNAASLAAYLLFLDRNVAAYRRYF 389
OY 317 NMRKDFTVNLPRFWSHACLADHVKRH-OEYKSVGNLEKMF 357
Db 390 RMRSFVAVHITTSFMDQMCRTQCAVOTSGDQPKSIHNLDMF 431

```

RESULT 8

```

US-10-189-977-11
Sequence 11, Application US/10189977
GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/10/189, 977
PRIORITY FILING DATE: 2002-07-03
PRIOR APPLICATION NUMBER: US/09/092, 315
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: US 60/048, 857
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 11
LENGTH: 433
TYPE: PRT
ORGANISM: Mus musculus
US-10-189-977-11

```

Query Match 35.8%; Score 706; DB 25; Length 433;

Best Local Similarity 42.7%; Pred. No. 4,7e-60; Matches 146; Conservative 48; Mismatches 96; Indels 52; Gaps 8;

```

OY 66 ILVWVMPF-----GOTFDLSQAMFNIGSCHLITDRSLYNKSHAVLIHHRDISMDLTNP 121
Db 92 VLLWMEFRRGGRGYPKSPDCSLRFINISGCLLTDRAAYGGAQAVLFHHRDLVKEHLDP 151
OY 122 QO-----ARPFQKIMWNLESPTHTPOKSG 147
Db 152 PPMGARRTDKALVLRVEDDQCAVTLGKALETVGSRPRPGQRMWMMNESPSHTDGLRG 211
OY 148 I-EHLEFNLITTYRRSDIOVPYGFVTSTNPFVEVPS-----KEKLYCWMVSNMNP 198
Db 212 LAKLFNWLITSTRTSDVFPVPGFLYSRSDP--TEQPSGJGAPOLARRGILVAVVSNMNE 269
OY 199 EHARVKKYNELSKSIEIHTYGOAF-GEYVNDKNLIPTISTCKEYLSFENSIRHXYTEKL 257
Db 270 HQAVRYYHQLSRHVSVDVFGRTGPRVPAIGLHTVARKKYLAFENSRIHVDYTEKL 329
OY 258 Y-NAFLAGVPPVVLGSRRENYENYIPADSFTHVEDFNSPSELAKYLEVDKNNKLYLSYF 316
Db 330 WRNAFLAGAVPVVILGPDNRANERFVRGCAFTHVDFFNAASLAAYLLFLDRNVAAYRRYF 389
OY 317 NMRKDFTVNLPRFWSHACLADHVKRH-OEYKSVGNLEKMF 357
Db 390 RMRSFVAVHITTSFMDQMCRTQCAVOTSGDQPKSIHNLDMF 431

```

RESULT 9

US-08-386-716-8

Sequence 8, Application US/08386716

```

GENERAL INFORMATION:
APPLICANT: Matzele, Gabriele
APPLICANT: Berger, Eric G.
APPLICANT: Mayhock, Bernd
TITLE OF INVENTION: Improved Process for the Production of
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386, 716
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/193, 987
FILING DATE:
APPLICATION NUMBER: US/07/991, 525
FILING DATE: 29-MAY-1992
APPLICATION NUMBER: DE 91810414.2
FILING DATE: 31-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE 92810167.4
FILING DATE: 04-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9208211.4
FILING DATE: 14-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Foley, Shawn P.
REGISTRATION NUMBER: 33, 071
REFERENCE/DOCKET NUMBER: 4-18658/A/BEG
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-386-716-8

```

Query Match 35.2%; Score 693.5; DB 7; Length 405;

Best Local Similarity 38.8%; Pred. No. 7.3e-59; Matches 154; Conservative 59; Mismatches 109; Indels 75; Gaps 14;

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OY 15 VCIILGCFMAC--LLIY-----KPTNSWFSMESASSVLKMKNFSTKTDYFNETTILY 68
Db 28 VCILAAGLCTALITFYACMGQPLPMA-SPTPS-----RPVGYLL 68
OY 69 WWPFGQTFDL---TSCAMFNIGSCHLITDRSLYNKSHAVLIHHRDI-----SW----- 115
Db 69 WWPFGGDSAPRPDCSLRFINISGCLLTDRAAYGGAQAVLFHHRDLVKEGPPMPPW 128
OY 116 -----DLTNLPQO-----ARPFQKIMWNLESPTHTP-OXSGIEHL 151
Db 129 GIOHTAEVDRLVLYEEAAAAAELATSSPRPGQRMWMMNESPSHTDGLRSLASNL 188

```


[illegible]

RESULT 12
 US-09-863-475A-8
 : Sequence 8, Application US/09863475A
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBOLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 P.C.,
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/863,475A
 FILING DATE: 24-May-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/914, 281
 FILING DATE: 20-JUL-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavalleye, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELE: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 405 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown

```

;      MOLECULE TYPE: protein
;      SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-863-475A-8

Query Match      35.1%; Score 691.5; DB 22; Length 405;
Best Local Similarity 38.8%; P-Val 1.2e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14

```

[illegible]

RESULT 13
 US-08-268-505-5
 Sequence 5, Application US/08268505
 GENERAL INFORMATION:
 APPLICANT: NATSUKA, SHUNJI
 APPLICANT: KEVSTEN, KEVIN M
 APPLICANT: LOWE, JOHN B
 TITLE OF INVENTION: CNA ENCODING A HUMAN LEUKOCYTE
 TITLE OF INVENTION: ALPH(1,3) FUCCOSYLTRANSFERASE CAPABLE OF SYNTHESIZING THE
 TITLE OF INVENTION: STALL LEWIS X DETERMINANT
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT
 STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
 CITY: ARLINGTON
 STATE: VIRGINIA
 COUNTRY: USA
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/268,505
 FILING DATE: 30-JUN-1994
 CLASSIFICATION: 530
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248655 OPAT UR
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 352 amino acids
 TYPE: amino acid
 STRANDEDNESS: single

Fri Nov 22 13:32:38 2002

us-09-744-748-1.ram

Page 8

```
QY 10 RPELIVCIIIGCFMACIIYIKPTNSVWFSPMESASSVLKMNFFSTKTDF-NEITILV 68
Db 14 RPELIGLLOLLFALCFEFSYIRVSHDOPGPADSSST---GPASTPTTPVRPELILL 68
QY 69 WVPREGOTFDLTSQAMF-NIOGCHLTDRSLYNKSHAVLIHHRDISWDLTN-LPOQARP 126
Db 69 WVPFHSPLTLVPCSKMLPETADCOQMTVNSILYPOADAVIFHREISPNRSLLPQARP 128
QY 127 PFOKIMMNLSPPTHPQKSGIEHLNLTLYRRSDIOVPGFELVSTNPFV---FEVP 183
Db 129 PGQRWVFSLESPHCSRLSALDGYFNLMTSRSDSIDFTPYGWLPEPMAEPVOTQVNM 188
QY 184 SKETLYGVVSNVNNPEHARKYINELSKSIEIHTYQAFGEYVNDKNLPTISTCKFYLS 243
Db 189 AKTDIVAMAVSNVNFSAKYLTIQKLSHLVAVYGRGHP-LSRGDMGTLARKFYLA 247
QY 244 FENSIHKDYTEKLY-NAFLAGSVPVYLGPSRENTENYIPADSFTIHEDENSPSELAKYL 302
Db 248 FENSLHPDYTEKLTKNALFANAVPVYLGPSKKNTERFLPDATIHVDDFESPADLAQYL 307
QY 303 KEYDKNNKLYLSEYFNRRKDFYVNLRFWESHA---CLACDHVKRHOEYKSVGNLEKMP 357
Db 308 OKLDKDSQSYQRFERWGETLR---PRL-SSMALAFQACROLOMDORYQTVHSAVSWP 361
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Search completed: November 22, 2002, 13:37:24
Job time : 139.5 secs


```

RESULT 2
US-09-733-524A-11
; Sequence 11, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-733-524A-11

Query Match
Best Local Similarity 35.8%; Score 706; DB 5; Length 433;
Matches 146; Conservative 48; Mismatches 96; Indels 52; Gaps 8;

QY 66 ILVAVWPF-----GQFDLISQAMRNIGCHLTTRSLYKNSHAVLIHHRDINSMDLNL 121
DB 92 VLLWMEPRGRGGTPKSPDCSLREINISGRLLTDRAVYGAQVLIHHRDLKELHDMF 151
QY 122 QQ-----AAPPOKIMWNLESPTHTPOKSG 147
DB 152 PPMGARRTDKALVLRVFDDEGAVTLTGKALETVSGPRQRMWNMFSPSHTEQLRG 211
QY 148 I-EHLFNLTLTYRRSDIDVPGFGLTVSTNPFVEVPS-----REKLVCWVWSMNP 198
DB 212 LAKLDFWMLSTYRSDSDVFPYGFYLSRSDP--TEQPSGLGQLARRKGLVAVVWSMNE 269
QY 199 EHAVKYYNLSKSIETHYGOAF-GEVYNDKNIPTSTCKFLYSFENSIHMDYTEKL 257
DB 270 HQAVRRYHDSRVSVDFGRGRGRPVPAIGLHTYARKFLAENSRHVDYTEKL 329
QY 258 Y-NAFLGAVPVVLGSRREYENTIPADSFIVEDFNPSSELAKEYDKNNKYLSTF 316
DB 330 WRNAPFLGAVPVVLGSPRANREYERVGFHVDDEPNAASLAAYLFLDRNVAAYRRYF 389
QY 317 NMRDFTVNLPRFESHACIADHYKRR-QEYKSVGNLEKMF 357
DB 390 RMRSFAVHTSFWDQMCRTCAVOTSGDQPKSIHNLDMF 431

RESULT 3
US-09-733-524A-10
; Sequence 10, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 359

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-733-524A-10

Query Match
Best Local Similarity 33.8%; Score 665.5; DB 5; Length 359;
Matches 142; Conservative 58; Mismatches 106; Indels 13; Gaps 9;

QY 55 STTDVFNETTLVWMBPGQFDLTSCQAMF-NIOGCHLTTRSLYKNSHAVLIHHRDI 113
DB 53 STTPHNSPLTLTTPWPKNPALPRCSEWPGTADCNITDARKYPPADAVIHHNEV 112
QY 114 SMD-LTNLPOQAPPPQKIMWNLESPTHTPOKSGIENHFLNLTLYRRSDIQVPGFLT 172
DB 113 MYNPSAQLPRSPRQGRQWIMFMSBPSHCWQKAMDGYENLTWYSRSDIFETYGWLE 172
QY 173 V-STNPF--VFEVPSREKLYCWWVSNMNEHARVRYKYNELSKSIEIHTYGOAFGEYVNDK 229
DB 173 PMSGQPAHPPNLISAKTELAVMAVSNMGPNBARYVYQSLQAHILKYDVGGRSH-KPLPQG 231
QY 230 NLPTISTCKFLYSFENSIHMDYTEKLY-NAFLGAVPVVLGSRREYENTIPADSFTH 288
DB 232 TMMETLSRYKFFLAFENSLHPDYITEKLMRALDAMAVPVVLGSRSNYERFLPPDAFIH 291
QY 289 VEDFNPSSELAKEYDKNNKYLSTYFNMRKDETVNLPR--FWESHACIADHYKRRQE 346
DB 292 VDFQSPKDLAKYLOELDKDARLYLSTRMRETLR---PRFSMALAFCKACWKQDESR 348
QY 347 YKSVGNLEKMF 357
DB 349 YQTRG-IAAMF 358

RESULT 4
US-09-733-524A-9
; Sequence 9, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Bos taurus
US-09-733-524A-9

Query Match
Best Local Similarity 32.9%; Score 648; DB 5; Length 365;
Matches 142; Conservative 66; Mismatches 118; Indels 42; Gaps 12;

QY 11 PFIYVCIILG-CPMACLI---YKPTNSWY-----FSPMESASSVLAKMRFSTKTDY 60
DB 18 PGLLDLALLALCFSTLRMSQKRPKPMWVSEIGAPSQATBSSAHPLR----- 68
QY 61 FNETTILVWMBPGQFDLTSCQAMF-NIOGCHLTTRSLYKNSHAVLIHHRDINSMDL 118
DB 69 -----VLTWTFPNQPLVALSRCSSELMPTGACQTLTVRSSEYPOADAVFVHHNEVSHRPM 123
QY 119 NLPOQAPPPQKIMWNLESPTHTPOKSGIENHFLNLTLYRRSDIQVPGFLT-----T 172
DB 124 QLPSPRPADQGRWVWFMSBPSNCLKLDLDGYENLTWYSRSDIFETYGWLEWPPSPQ 183

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Qy 173 VSTNPFVEVPSREKLYCVMVSNMPEHARVKNYNELSKSIEIHRYGQAFGEYVNDKNI 232
    | | : : | | | | | | | | : : | | : : | | : :
Db 184 VET---LNTISAKTYLVAMVSNMNTDSIRVOYKILKRLHLDVYGR-FHRLPHALMA 239
Qy 233 PRTICKRFLSENSIHKDYITEKLY-NAFLAGSVPVVLGPREVENTYIPADSFTHVED 291
    | | | | | | | | | | | | | | | | | | | | | |
Db 240 KOLSOYKFLAENSILHPDYITEKLMKNALQAMAVVVLGPRVYEQFLPPKAFTHVED 299
Qy 292 FMSPELAKKYLKVDKNKNKLYSTFNWRKDFVNLPR-FMESHACLADHYKRRQDEYKS 349
    | | : : | | : : | | : : | | : : | | : : | | : :
Db 300 FQSPDLOAYLLALDKNDYASLYNFRWRETLR---PRFSMALMFCCKAKWLQOEPRYQT 356
Qy 350 VGNLEKWF 357
    | : : |
Db 357 VPSIASWF 364

```

```

RESULT 5
US-09-733-524A-8
; Sequence 8, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-733-524A-8

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Query Match          7.6%; Score 149; DB 5; Length 454;
Best Local Similarity 25.9%; Pred. No. 9.2e-07;
Matches 75; Conservative 46; Mismatches 113; Indels 56; Gaps 13;

Qy 31 KPTNSWVSPMSASSVLMKMFESTKDYF---NETTILVWVWPGQTFDLTSCQAMFN 87
    | | : : | | : : | | : : | | : : | | : :
Db 65 KPADIVFGNPLGSAKKILSYQN---TKRIFYGENES-----PNEFLDYAIGFDELD 114
Qy 88 IOGCHLTDRSLYKNSHAVLIHHRDISMDLTNLPOQARPPFQKWLMMNLESPHTHPQKSG 147
    | | : : | | : : | | : : | | : : | | : :
Db 115 FR-----DRIKRLPLYDRLLHKAESVNDTAPYKIGN---SLITYLKKSHOCK--- 161
Qy 148 IEHLENLTLYRRDSDIOVPYGFLLVSTNPFVEVPSREKLYCVMVSNMPEHARVKNY 207
    | | : : | | : : | | : : | | : : | | : :
Db 162 -ENHFNLCALINNESD-----PLKRGFASFVASNAP-MNAPFYD 200
Qy 208 ELKSIEIHRYGQ---FGEYVNDKNIPLTISTCKFYLSFENSIIHKDYITEKLYNAFLA 263
    | | : : | | : : | | : : | | : : | | : :
Db 201 ALN-SIEPTGGGAVKNTLGKVGKNS--EFLSQYKFNLCFENSGOYGVEYTEKIDAYFS 257
Qy 264 GSVPVVLGPREVENTYIPADSFTHVEDFMSPELAKKYLKVDKNKNKLYL 313
    | : : | | : : | | : : | | : : | | : :
Db 258 HTPIYWG-SPSVAKDPNP-KSFVNVHDFKNFDEALDIYKILTHKNAYL 305

```

```

RESULT 6
US-09-733-524A-1
; Sequence 1, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3

```

```

; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-733-524A-1

```

```

Query Match          7.4%; Score 145; DB 5; Length 464;
Best Local Similarity 25.3%; Pred. No. 2.3e-06;
Matches 73; Conservative 46; Mismatches 100; Indels 70; Gaps 15;

Qy 39 SPMSASSVLMKKN---FFS--TKTDYFNETTLVWVWPGQTFDLTSCQAMFNIOGCH 92
    | : | | : | : | : : | | : : | | : :
Db 73 NPLGSARKILSYQNAKRVFYTGENSESPNEN-----LFDYAIGPD---ELDFN----- 116
Qy 93 LTTDSLYNKSHAVLIHHRDISMDLTNLPOQARPPFQKIMWN---LESPTHTPQKSGI 148
    | | : : | | : : | | : : | | : : | | : :
Db 117 ---DRIKRLPLYDRLLHKAESVNDTAPYKIKD-----NSLYALKRPSCHCK--- 161
Qy 149 EHLFNLTLYRRDSDIOVPYGFLLVSTNPFVEVPSREKLYCVMVSNMPEHARVKNYNE 208
    | | : : | | : : | | : : | | : : | | : :
Db 162 EKHPLNCVAVNDESD-----PLKRGFASFVASNAP-IRNAFYDA 201
Qy 209 LKSTIEIHRYG---QAGEYVNDKNIPLTISTCKFYLSFENSIIHKDYITEKLYNAFLAG 264
    | : | | | | : | : | : | | : : | | : :
Db 202 LN-SIEPTGGGAVKNTLGKVGKNS--EFLSQYKFNLCFENSGOYGVEYTEKIDAYFSH 258
Qy 265 SVPVVLGPREVENTYIPADSFTHVEDFMSPELAKKYLKVDKNKNKLYL 313
    | : | | : | : | : : | | : : | | : :
Db 259 TPIYIWG-SPSVAKDPNP-KSFVNVHDFKNFDEALDIYKILTHKNAYL 305

```

```

RESULT 7
US-09-733-524A-7
; Sequence 7, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 478
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-733-524A-7

```

```

Query Match          7.4%; Score 145; DB 5; Length 478;
Best Local Similarity 25.3%; Pred. No. 2.4e-06;
Matches 73; Conservative 46; Mismatches 100; Indels 70; Gaps 15;

Qy 39 SPMSASSVLMKKN---FFS--TKTDYFNETTLVWVWPGQTFDLTSCQAMFNIOGCH 92
    | : | | : | : | : : | | : : | | : :
Db 73 NPLGSARKILSYQNAKRVFYTGENSESPNEN-----LFDYAIGPD---ELDFN----- 116

```

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Page 4

QY	93	LTTDSNLKNSIAVLIIHHRDLSMDLTNLNQOAPPPQKWMNM---	LESPTHTPOKSCI	148
		::: ::: :::		
Db	117	--DRLNMPCLYDRLLHKAESVDDTAPKIKD-----	NSLYALKRPSCHP----	161
		::: ::: :::		
QY	149	EHLFNLTLTRRDSIOVPPGFTLVSTNPPEVPSKERLCWVVSWMNBEHARVRYNE		208
		::: ::: :::		
Db	162	EKHPNCAVAVNDSO-----	PLKRGFASFAASPNMP--IRAFETYA	201
		::: ::: :::		
QY	209	LKSKSIEIHTYQ---QAFGEYVNDKMLIPTISTCKFYLSFENSITHKDIYITEKLYNNELAG		264
		::: ::: :::		
Db	202	LN-STLEPYVGGSVANTGLYVKNKKN--EFLSYQFKNLCFENTGTYGVTEKIDAIYFSH		258
		::: ::: :::		
QY	265	SVEPVLPSPRENYENTIPADSFTHVEDFNSPSELKYLREVDKNNKKLYL		313
		::: ::: :::		
Db	259	TEIITWNG--SPSYAKDENP-KSFVNVHDFENKPFEDAIIDYIKYLAHTKKNAYL		305
		::: ::: :::		

```

RESULT 8
US-09-733-524A-3
: Sequence 3, Application US/09733524A
GENERAL INFORMATION:
: APPLICANT: Taylor, Diane E.
: APPLICANT: Ge, Zhongming
: TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
: TITLE OF INVENTION: FUCCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
: TITLE OF INVENTION: EXPRESSING THEM (amended)
: FILE REFERENCE: 07254-049002
: CURRENT APPLICATION NUMBER: US/09/733,524A
: CURRENT FILING DATE: 2000-12-07
: PRIOR APPLICATION NUMBER: US 09/092,315
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: US 60/048,857
: PRIOR FILING DATE: 1997-06-06
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 3
: LENGTH: 440
: TYPE: PRP
: ORGANISM: Helicobacter pylori
: US-09-733-524A-3

```

Query Match	7.3%	Score 144	DB 5	Length 440
Best Local Similarity	24.7%	Pred. No. 2,7e-06		
Matches	71	Conservative	48	Mismatches 118
			Indels	50
			Gaps	12
<hr/>				
QY	31	KPNNSWVESMESSASVTKMKNFESTKIDYENETITLWVWPRFGQTFDLTSCQAMNIOG	90	
Db	62	EPEDIVFGSPIGAKRILISYQ~TKRFVYAGENV-----PNNFLDYAIGDELDLR	113	
QY	91	CHLTTRSLTKNSHVLHHHDSIDLNLPOQARPPQKVIWNLSPHTPOKSGTEH	150	
Db	114	-----DKYLRMPFLYDRLHKAESVNDTAPKIKFD-----SLYTLKKPSHHK---EK	160	
QY	151	LFNULTLRDSDIOVPIGFLTVSTNPVEFVEPSKEKLYCAVVSNNMPEHARVKKYNELS	210	
Db	161	HPHLCAYANDESD-----PLKRGASVAVSNPAP~KRAAFDALN	200	
QY	211	KSTIEHTYG---QAFGEVYNDKNLIPTISCKEYFLSEFNSIHDKYITTEKLYNAFLAGSV	266	
Db	201	-STLEPTGGGSVAKNLTGYVVGKN~EFLSDYKKNLFLESGSGYGVTEKIIDAYFSHTY	257	
QY	267	PVYLGSRRENYETIPADSEFIVEDEFNPSPSLALYKLEEVKKNKKLYL	313	
Db	258	PIYWG~SPSVADEDFN~KSEVAVHDFCKNFDEAIDYVRLLTHTPNAYI	302	

RESULT 9
US-09-733-524A-6
; Sequence 6, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming

```

1  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
2  TITLE OF INVENTION: FUCOSYLTRANSFERASIS AND EXPRESSION SYSTEMS FOR MAKING AND
3  TITLE OF INVENTION: EXPRESSING THEM (amended)
4  FILER REFERENCE: 07254-049002
5  CURRENT APPLICATION NUMBER: US/09/733,524A
6  PRIOR FILING DATE: 2000-12-07
7  PRIOR APPLICATION NUMBER: US 09/092,315
8  PRIOR FILING DATE: 1998-06-05
9  PRIOR APPLICATION NUMBER: US 60/048,857
10 PRIOR FILING DATE: 1997-06-06
11 NUMBER OF SEQ ID NOS: 27
12 SOFTWARE: FastSeq for Windows Version 4.0
13 SEQ ID NO 6
14 LENGTH: 425
15 TYPE: PRF
16 ORGANISM: Helicobacter pylori
17 US-09-733-524A-6

```

[illegible]

```

RESULT 10
US-09-733-524A-2
: Sequence 2, Application US/09733524A
: GENERAL INFORMATION:
: APPLICANT: Taylor, Diane E.
: APPLICANT: Ge, Zhongming
: TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
: TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
: TITLE OF INVENTION: EXPRESSING THEM (amended)
: FILE REFERENCE: 07254-049002
: CURRENT APPLICATION NUMBER: US/09/733,524A
: CURRENT FILING DATE: 2000-12-07
: PRIOR APPLICATION NUMBER: US 09/092,315
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: US 60/048,857
: PRIOR FILING DATE: 1997-06-06
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2
: LENGTH: 486
: TYPE: PR1
: ORGANISM: Helicobacter pylori
: US-09-733-524A-2

```

Query Match	6.8%;	Score 133;	DB 5;	Length 486;
Best Local Similarity	23.9%;	Pred. No. 3.6e-05;		
Matches	71;	Conservative 49;	Mismatches 107;	Indels 70;
				Gaps 13;
QY	31	KPTNSWVSPMESASVYLAKRN---	FFS--TKTDYENETITLWVWPGGTFDLTSCOA	84

```
Db 65 EPSDLVFGSPIGSARKILSYONAKRVFYTGENSESPNFN-----LFDYAIQFDEIDFR 116
QY 85 MFNIQGHULTDRSLYNKSAVLIHHRDISWDLTNLPQARPPFOKIMMNLSPHTPQ 144
Db 117 -----DHYLKMPLYDRLHHKAEVNDJTSYKPKP-----SLYALKPSHFK 161
QY 145 KSGIEHLFNLTLTYRRSDIQVPGFLTVSTNPFVEVPSKEKLVGVVSNMPEHARV 204
Db 162 -----ENHPNLCAYVNNSD-----PLKRGFASVVASNPAP-KRNA 197
QY 205 YNELEKSIE-----IHTYQAFGEVYVNDKNLPTISTCKFYLSFENSIMKDYITEK 256
Db 198 FYDVLN-SIEPYIGGSVKTLG-----YNINKSEFLSQYKKNLCFENSQGYVTEK 250
QY 257 LVYAFLAGSPVYVLAGSPRENYENYIPADSFIVHEDENSPBELAKYLKEVKNKLT 313
Db 251 IIDAYFSHTPIYWG-SPSYAODFNP-KSEVNVCDKFEDEAIDHVKYHTHPNAV 305

RESULT 11
US-09-733-524A-5
; Sequence 5: Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 476
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-733-524A-5

Query Match
Best Local Similarity 28.6%; Score 131.5; DB 5; Length 476;
Matches 52; Conservative 30; Mismatches 67; Indels 33; Gaps 8;

QY 136 LESPTHTPOKSGIEHLFNLTLTYRRSDIQVPGFLTVSTNPFVEVPSKEKLVGVVSN 195
Db 154 LKRP SHFK-----ENHPNLCAYVNNSD-----LKRGFASVVASN 190
QY 196 WNEHARVKNYNELEKSIEHTYG-----QAFGEYVNDKNLPTISTCKFYLSFENSIMK 251
Db 191 ANAP-KRNAFYDALN-SIEVYIGGSVRMTLGKVGKNK--EFLSYQKFNLCFENSQGYG 246
QY 252 YIEKLYNAFLAGSPVYVLAGSPRENYENYIPADSFIVHEDENSPBELAKYLKEVKNK 311
Db 247 YIEKLIADKFSHTPIYWG-SPSYAKDNP-KSEVNVHDFNPDEAIDIKYHTHPNA 304
QY 312 YL 313
Db 305 YL 306

RESULT 12
US-10-131-813A-186
; Sequence 186, Application US/10131813A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Flivaroff, Ellen
```

```
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumes, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P33303R1C139
; CURRENT APPLICATION NUMBER: US/10/131,813A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-813A-186

Query Match
Best Local Similarity 4.9%; Score 96.5; DB 6; Length 364;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

QY 142 TPQKSGIEHLFNLTL-----TYRRSDIQVPGFLTVSTNPFVEVPSKEKLVGVVSNM 197
Db 24 TPQASIKALARNLNRDLRYRDEDTQVK-GNGYQSPFPNPSYP-RNLLTWRLHSOE 81
QY 198 PEHARVKNYNELEKS-----IEHTYQAF-----GEVYVNDKNLPTIST--TCKF 240
Db 82 NTRIQVFNQGFLEAENDICRYDEVEVDISETSTIIRGRKCGHKEVPRKRSTNOI 141
QY 241 YLSFENSIMKDYITE-----KLYNAFLAGSPVYVLAGSPRENYENYIPADSFIVHEDENSP 296
Db 142 KITEKSD--DYFVARPGFKIYSLDEFOPA--AASETWES--VTSISGVSVNSPS 193
QY 297 -----ELAKYLKEVNDKNKLTLYSYFN--WRKDF--VNLDFE 329
Db 194 VDPPTLIADALDKKIAEFDTVEDL-LKTFNPESWQEDLENMYIDTPRY 240

RESULT 13
US-10-131-819A-186
; Sequence 186, Application US/10131819A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
```


Job time : 11 secs

```
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C126
; CURRENT APPLICATION NUMBER: US/10/131,824A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-824A-186
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Query Match 4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.089;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;
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QY 142 TPQSGAIEHLNLTLP---TYRSDIDVPGFLVSTNPFVEVPSKEKLVCWVSNWN 197
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
Db 24 TPQSGAIEHLNLTLP---TYRSDIDVPGFLVSTNPFVEVPSKEKLVCWVSNWN 197
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
QY 198 PEHARVKYNNELSKS-----IEIHRYGQAF---GEVYNDKNLIPTIS--TCKF 240
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
Db 82 NTRIQLVFDNQGLEAEANDICRYDEVEDISFTIIRGMCWGHKEVPPRISRTNQI 141
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
QY 241 YLSFENSHKDYITE---KIYNAPLAGSVPVVLGSPRENTENTIPADSFTHVEDFNSPS 296
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
Db 142 KITEKSD---DYFAKPGFKIYLSLEDFQPA--AASETNMS---VTSISISGVSYNSPS 193
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
QY 297 -----ELAKYLYKEVDKNNKLYLSYFN---WRKDF---VNLPRF 329
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
Db 194 VTDPFLIADALDKIAEPDYEDL-LKTFNPESQEDLENNYLDTPRY 240
||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
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Search completed: November 22, 2002, 13:37:49

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 22, 2002, 13:30:22 : Search time 12 seconds
(without alignments)
880.236 Million cell updates/sec

Title: US-09-744-748-2

Perfect score: 1970

Sequence: 1 MSTRSKILRPFLVICILG.....HKRHOEYKSYGNLEKFWN 359

Scoring table:

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
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2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PTCUTS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	792	40.2	356	4	US-09-092-315-12
2	792	40.2	393	4	US-09-390-131-8
3	703	35.7	433	4	US-09-092-315-11
4	687.5	34.9	405	1	US-07-914-281-8
5	687.5	34.9	405	1	US-08-393-246-8
6	687.5	34.9	405	1	US-08-525-058A-8
7	687.5	34.9	405	2	US-08-696-731-8
8	687.5	34.9	405	4	US-08-042-531-8
9	673.5	34.2	405	2	US-08-483-151-4
10	667	33.9	299	5	PCT-US91-00899-6
11	667	33.9	361	1	US-07-914-281-2
12	667	33.9	361	1	US-08-393-246-2
13	667	33.9	361	1	US-08-273-411-3
14	667	33.9	361	1	US-08-525-058A-2
15	667	33.9	361	2	US-08-696-731-2
16	667	33.9	361	4	US-09-042-531-2
17	667	33.9	361	4	US-09-390-131-6
18	667	33.9	361	5	PCT-US91-00899-7
19	667	33.9	374	1	US-07-914-281-11
20	667	33.9	374	1	US-08-393-246-11
21	667	33.9	374	1	US-08-525-058A-11
22	667	33.9	374	2	US-08-696-731-11
23	667	33.9	374	4	US-09-042-531-11
24	662.5	33.6	359	1	US-07-914-281-14
25	662.5	33.6	359	1	US-08-393-246-14
26	662.5	33.6	359	1	US-08-525-058A-14
27	662.5	33.6	359	2	US-08-696-731-14

28	662.5	33.6	359	4	US-09-042-531-14	Sequence 14, Appl
29	662.5	33.6	359	4	US-09-092-315-10	Sequence 10, Appl
30	653	33.1	365	4	US-09-092-315-9	Sequence 9, Appl
31	653	33.1	365	4	US-09-390-131-7	Sequence 7, Appl
32	648.5	32.9	357	5	PCT-US91-00899-14	Sequence 14, Appl
33	579	29.4	342	2	US-08-483-151-2	Sequence 2, Appl
34	281.5	14.3	450	4	US-09-390-131-9	Sequence 9, Appl
35	281.5	14.3	451	4	US-09-390-131-3	Sequence 3, Appl
36	147	7.5	454	4	US-09-092-315-8	Sequence 8, Appl
37	142	7.2	372	4	US-09-092-315-13	Sequence 13, Appl
38	142	7.2	440	4	US-09-092-315-3	Sequence 3, Appl
39	142	7.2	464	4	US-09-092-315-1	Sequence 1, Appl
40	142	7.2	478	4	US-09-092-315-7	Sequence 7, Appl
41	131	6.6	486	4	US-09-092-315-2	Sequence 2, Appl
42	129.5	6.6	425	4	US-09-092-315-6	Sequence 6, Appl
43	128.5	6.5	476	4	US-09-092-315-5	Sequence 5, Appl
44	100.5	5.1	1088	2	US-08-742-026-2	Sequence 2, Appl
45	100.5	5.1	1088	2	US-08-742-026-23	Sequence 23, Appl

ALIGNMENTS

```
RESULT 1
US-09-092-315-12
; Sequence 12, Application US/09092315
; Patent No. 6399337
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/09/092,315
; CURRENT FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: US 60/048,857
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-09-092-315-12

Query Match      40.2%; Score 792; DB 4; Length 356;
Best Local Similarity 50.3%; Pred. No. 2.6e-68;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

QY 63 ETTIIVWVPFGQFDLTSCQAMFNIOGCHLTDRSLYKSHAVLIHRDIS-WDLTNLP 121
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 56 EYTVILWMPFGRFWRPRADCRKRYNITGCLSDADGRIGGEARVAVLFHHRDLHGRGLP 115
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY 122 Q--QARPPQKIMWNLESPTHTPOKSGIEHLFNTLTLYRRDSIOVPYGLTVSTNPV 179
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 116 RPPPPRPQRRVWMMNFESPSHSGIAGLGFNTMTSYRDSVDVFPYGYLYEPPSPRP 175
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY 180 FEVPSKEKIVCVVSNWNPDEHARVKYNNLSSTIEHTYGOAFGEYVNDKNLPIITSACK 239
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 176 FVLPRKSRIVAVVYISNMWEHARVRYRQLKEHLPLDVG-ARGMALLEGSVYKTVSAVK 234
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY 240 FYLSFENSIRHKYITEKLY-NAFLAGSVVYVGGPRENENYIPDSFTIHDVDSPEL 298
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 235 FYLAFFNSQHTYITEKLMKNFAASAVYVIGPRANVERITIPDSFTIHDVDFSPRL 294
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY 299 AKYLEVDKNNKLYLSYFNMRKDFVNLPRFESHACIACDHVK-RHOEYKSYGNLEKWF 357
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 295 ATYLKFLDKNKPSYRFRFAWRKKEVHVHVSFDDEHYKVCFAVRAGNQLKTVQNLAGWF 354
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 2
US-09-390-131-8
; Sequence 8, Application US/09390131
; Patent No. 6461835
```

GENERAL INFORMATION:

; APPLICANT: Abbott Laboratories
 ; APPLICANT: Cummings, Richard D.
 ; APPLICANT: Nyame, A. Kwame
 ; APPLICANT: DeRose-Boyd, Russell A.
 ; TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES
 ; TITLE OF INVENTION: ENCODING FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMAL
 ; TITLE OF INVENTION: INCORPORATING SAME
 ; FILE REFERENCE: 6679, US, 01
 ; CURRENT APPLICATION NUMBER: US/09/390,131
 ; CURRENT FILING DATE: 1999-09-03
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 8
 ; LENGTH: 393
 ; TYPE: PRT
 ; ORGANISM: Caenorhabditis elegans
 ; US-09-390-131-8

Query Match

Best Local Similarity 40.2%; Score 792; DB 4; Length 393;
 Matches 151; Conservative 50.3%; Pred. No. 3e-68; 93; Indels 6; Gaps 5;

QY 63 ETTIIVWVPRGQTFDLTSCQAMFNIOGCHITDRSLYKSHAVLIHHDDIS-WDLTNP 121
 DB 55 EYTVLWMEPRGPRPADCRNRNITIGCLSDRGHYGEARAVLHHHDLAHGRQGLP 114
 QY 122 Q--QARPPQKWMNNLESPTHTPOKSGIEHLENLTLYRRSDIQVPYGFVSTNPEV 179
 DB 115 RPPRPAPRQRMWNNFSPSHSGGLAGLGLNMTSYRRSDVVPYGYEPPSPRP 174
 QY 180 FEVPRKELVGVVSNMNPENHARVYKYNELSKSIEHTYGOAGGEVYNDKNLPTISACK 239
 DB 175 EYLPKRSRLVAMVSNMNEEHARVRYROLKEHLPIDIVYG-ARGMMLLEGSVYKTVSAVK 233
 QY 240 FYLSFENSIHKDYITEKLY-NAFLAGSVPVVLGFSRENYEYIPADSFHVEDYNSPSEL 298
 DB 234 FYLAFENSQHTDYITEKLMKNAFAASAVPVILGRANRYERFIPADSFHVEDYNSPSEL 293
 QY 299 ARYLEVDKNNKLYLSYNNMRKDETVNLPRFESHACLDHVK-RHOEYKVGULEKWF 357
 DB 294 ATYLFELDKNPKSYRKRYTAMNKILEVHTSFWDHCKYCEAVTAGNOLKTVQNLGWF 353

RESULT 3

; US-09-092-315-11
 ; Sequence 11, Application US/09092315
 ; Patent No. 6399337
 ; GENERAL INFORMATION:
 ; APPLICANT: Taylor, Diane E.
 ; APPLICANT: Ge, Zhongming
 ; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
 ; FILE REFERENCE: 07254/049001
 ; CURRENT APPLICATION NUMBER: US/09/092,315
 ; CURRENT FILING DATE: 1998-06-05
 ; EARLIER APPLICATION NUMBER: US 60/048,857
 ; EARLIER FILING DATE: 1997-06-06
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 11
 ; LENGTH: 433
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; US-09-092-315-11

Query Match

Best Local Similarity 35.7%; Score 703; DB 4; Length 433;
 Matches 145; Conservative 49; Mismatches 96; Indels 52; Gaps 8;

QY 66 ILVWVWP-----GQTFDLTSCQAMFNIOGCHITDRSLYKSHAVLIHHDDISWDLTNP 121
 DB 92 VLLWMEPRGGRGYPRKSPDCLSFENISGCRLLIDRAAGVGAQVLFHHRDLVKELHWP 151

QY 122 QO-----ARPPQKWMNNLESPTHTPOKSG 147
 DB 152 PPMGARETRDKALVLRVDDDEGAVTLGKALEYSGRPPGQRMWNNFESSHTPGLRG 211
 QY 148 T-EHLENLTLYRRSDIQVPYGFVSTNPEFVENS-----KELVGVVSNMNP 198
 DB 212 LAEDLFNMTLSRYTSDVFPYGYLSRSD--TEQSGGLQPLARKGLVAMVSNMNE 269
 QY 199 EHARVYNNELSKSIEHTYGOAF-GEVYNDKNLPTISACKFYLSPENSIRKDYITEKL 257
 DB 270 HQARVRYHQLSRHVSVDVFGRTGPRVPAIGLHTVARYKRYLAFENSRYVDYITEKL 329
 QY 258 Y-NAFLAGSVPVVLGFSRENYEYIPADSFHVEDYNSPELAKYLEVDKNNKLYLSYF 316
 DB 330 WRAFLAGAVPVVLGPDGRANRYERVPDCAFTHVDDFPNASTLAAYLLFLDRNVAVYRYF 389
 QY 317 NMRKDETVNLPRFESHACLDHVKRH-OEYKVGULEKWF 357
 DB 390 RMRSPAVHITSFWDCKRQCQAVQTSQDPSKSIHNLADWF 431

RESULT 4

; US-07-914-281-8
 ; Sequence 8, Application US/07914281
 ; Patent No. 5324663
 ; GENERAL INFORMATION:
 ; APPLICANT: LOWE, JOHN B.
 ; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 ; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 ; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 ; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 ; ADDRESSEE: P.C.
 ; STREET: 1755 Jefferson Davis Highway, Fourth Floor
 ; CITY: Arlington
 ; STATE: Virginia
 ; COUNTRY: U.S.A.
 ; ZIP: 22202
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/914,281
 ; FILING DATE: 19920720
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Lavalleye, Jean-Paul M. P.
 ; REGISTRATION NUMBER: 31,451
 ; TELECOMUNICATION INFORMATION:
 ; TELEPHONE: (703)521-4500
 ; TELEFAX: (703)486-2347
 ; TELEX: 248855 OPAF UR
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 405 amino acids
 ; TYPE: AMINO ACID
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; US-07-914-281-8

Query Match

Best Local Similarity 34.9%; Score 687.5; DB 1; Length 405;
 Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIIGCFAC--LIIY-----KPTNSWTFSPMESASVLMKNFSTDTDFNETTILY 68
 DB 28 VCVIAAGLTCTALTTCMCGQLPLPMA-SPTPS-----RPVGYLL 68


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Qy 69 WWPFGQFIDL-----TSCQAMFNIGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
Db 69 WWPFGGRDSAPRPPDCPLRFENISGCRLLTDRASYGEQAVALFHHRRDLVKGPDPMPPPW 128
Qy 116 -----DLTNPQQ-----ARPPQKIMMNLSPHTTP-QKSGIEHL 151
Db 129 GQAHTAEVDRLVLDYEAAAAAALATSSPRPGQRMVWNNFSPSHSPGLRLSLASNL 188
Qy 152 FNLTLTFRSDIOVPGFLVSTNPFVEVPS-----KEKLVCMVWSNMNDEHARV 203
Db 159 FNMWTLSTYRSDSVFVPGYGLVPRSHP--GDPPSGLAPLSRKQGLVAVWVSHWDERQARV 246
Qy 204 KYNELSKSIEIHTYGOAF-GEYVNDKMLIPTISACKFYLSFENSIRKDYITEKLY-NAF 261
Db 247 RYHQLSQHVTVDYVGRGGPGQVPEIGLHTVARYKFFLAENSOHLDYITEKLMRNAL 306
Qy 262 LAGSVPVVILGSPRENYENTIPADSFIVHEDVNSPELAKYKEVDKNNKLYISTYNNMRKD 321
Db 307 LAGAVPVVILGPRANYERFVPGAFIHYDDPFSASSLASLYLLFLDRNPVAVRYRPHMRRS 366
Qy 322 FTVNLPRFWEASHACLADHKVRRHOEY-KSVGNLEKMF 357
Db 367 YAVHTSFWDPEWCWCAVQAVQAGDRPSIRNLASWF 403

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RESULT 5 US-08-393-246-8

Sequence 8, Application US/08393246
Patent No. 5593900

GENERAL INFORMATION:

APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESS: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/393,246
FILING DATE:

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/220,433
FILING DATE: 30-MAR-1994
APPLICATION NUMBER: US 07/914,281
FILING DATE: 20-JUL-1992

ATTORNEY/AGENT INFORMATION:

NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347

INFORMATION FOR SEQ ID NO:

SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-393-246-8

Query Match 34.9%; Score 687.5; DB 1; Length 405;
Best Local Similarity 38.5%; Pred. NO. 3.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

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Qy 15 VCIILGCEFMAC--LLIYI---KPTNSWTFSPMESASVLYKKMFSTKTDYFNEFTILV 68
Db 28 VCVLAAGLTCALITVYACWGLPLPLPWA-SPTPS-----RPVGYLL 68
Qy 69 WWPFGQFIDL-----TSCQAMFNIGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
Db 69 WWPFGGRDSAPRPPDCPLRFENISGCRLLTDRASYGEQAVALFHHRRDLVKGPDPMPPPW 128
Qy 116 -----DLTNPQQ-----ARPPQKIMMNLSPHTTP-QKSGIEHL 151
Db 129 GQAHTAEVDRLVLDYEAAAAAALATSSPRPGQRMVWNNFSPSHSPGLRLSLASNL 188
Qy 152 FNLTLTFRSDIOVPGFLVSTNPFVEVPS-----KEKLVCMVWSNMNDEHARV 203
Db 159 FNMWTLSTYRSDSVFVPGYGLVPRSHP--GDPPSGLAPLSRKQGLVAVWVSHWDERQARV 246
Qy 204 KYNELSKSIEIHTYGOAF-GEYVNDKMLIPTISACKFYLSFENSIRKDYITEKLY-NAF 261
Db 247 RYHQLSQHVTVDYVGRGGPGQVPEIGLHTVARYKFFLAENSOHLDYITEKLMRNAL 306
Qy 262 LAGSVPVVILGSPRENYENTIPADSFIVHEDVNSPELAKYKEVDKNNKLYISTYNNMRKD 321
Db 307 LAGAVPVVILGPRANYERFVPGAFIHYDDPFSASSLASLYLLFLDRNPVAVRYRPHMRRS 366
Qy 322 FTVNLPRFWEASHACLADHKVRRHOEY-KSVGNLEKMF 357
Db 367 YAVHTSFWDPEWCWCAVQAVQAGDRPSIRNLASWF 403

```

RESULT 6 US-08-525-058A-8

Sequence 8, Application US/08525058A
Patent No. 5770420

GENERAL INFORMATION:

APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESS: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,058A
FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347

INFORMATION FOR SEQ ID NO:

SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-525-058A-8

Query Match 34.9% Score 687.5; DB 1; Length 405;
Best Local Similarity 38.5%; Pred. No. 3.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI---KPTNSWIFSPMESASVYLKMKNFSTDTYFNETTIIY 68
DB 28 VCVLAAGITCALITTCWGOPLPLPMA--SPTPS-----RPVGYLL 68
QY 69 WWPFGQTFDL-----TSCQAMFNTOGCHLTDSLYNKSHAVLIHHRDI---SW--- 115
DB 69 WWPFGQDSAPRPPDCPLRFNITSGRLTDRASGEAOAVLFHHRDLVKGPDPMPPPW 128
QY 116 -----DITNLPOQ-----ARPPQKIMWNLESPTHTP--OKSGIEHL 151
DB 129 GIOAHTAEVVDLRYLDYEAAAAEAALATSSPPGQRMVWMNFESPSHSGLRSLASNL 188
QY 152 FNLITLYRRSDIOVYGFELTVSTNPVFEVPS-----KEKLYCWVSNMNEHARV 203
DB 189 FFWTLSTYRADSDVFPVGYLYPRSH--GDPGSLAPPLSRKQGLVAVVSHMDERQARV 246
QY 204 KYYNELSKIETHYGAFF-GEVYNDKNLPTISACKFYLSFNSIHKDYIEKLY-NAF 261
DB 247 RYHOLSOHVYDVGRGPGQAPPEIGLHTVARKFYLAFFNSQHDLYIEKILMRNL 306
QY 262 LAGSPVYVLPGRRENYEYIPADSFIVEDIYNSPELAKYLVKDNKNLTYSTNMRKD 321
DB 307 LAGAVPVYVLPGRANIEFVRGAFIHVDDFPSASSLASYLELDNRNPAVRYRYHMRKS 366
QY 322 FTVNLPFWESHACIACDHVKRHOEY-KSYGNLEKMF 357
DB 367 YAVHITSFWDEPWCRCQAVDAGDRKPSIRNLASWF 403

RESULT 7

9S-08-696-731-8
Sequence 8, Application US/08696731

Patent No. 5955347

GENERAL INFORMATION:

APPLICANT: LOWE, JOHN B.

TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS

TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,

TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION

TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,

ADDRESSEE: P.C.

STREET: 1755 Jefferson Davis Highway, Fourth Floor

CITY: Arlington

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/696,731

FILING DATE: 14-AUG-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/393,246

FILING DATE:

APPLICATION NUMBER: US 08/220,433

FILING DATE: 30-MAR-1994

APPLICATION NUMBER: US 07/914,281

FILING DATE: 20-JUL-1992

ATTORNEY/AGENT INFORMATION:

CURRENT APPLICATION DATA:

NAME: Lavallleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)466-2347
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-696-731-8

Query Match 34.9% Score 687.5; DB 2; Length 405;
Best Local Similarity 38.5%; Pred. No. 3.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI---KPTNSWIFSPMESASVYLKMKNFSTDTYFNETTIIY 68
DB 28 VCVLAAGITCALITTCWGOPLPLPMA--SPTPS-----RPVGYLL 68
QY 69 WWPFGQTFDL-----TSCQAMFNTOGCHLTDSLYNKSHAVLIHHRDI---SW--- 115
DB 69 WWPFGQDSAPRPPDCPLRFNITSGRLTDRASGEAOAVLFHHRDLVKGPDPMPPPW 128
QY 116 -----DITNLPOQ-----ARPPQKIMWNLESPTHTP--OKSGIEHL 151
DB 129 GIOAHTAEVVDLRYLDYEAAAAEAALATSSPPGQRMVWMNFESPSHSGLRSLASNL 188
QY 152 FNLITLYRRSDIOVYGFELTVSTNPVFEVPS-----KEKLYCWVSNMNEHARV 203
DB 189 FFWTLSTYRADSDVFPVGYLYPRSH--GDPGSLAPPLSRKQGLVAVVSHMDERQARV 246
QY 204 KYYNELSKIETHYGAFF-GEVYNDKNLPTISACKFYLSFNSIHKDYIEKLY-NAF 261
DB 247 RYHOLSOHVYDVGRGPGQAPPEIGLHTVARKFYLAFFNSQHDLYIEKILMRNL 306
QY 262 LAGSPVYVLPGRRENYEYIPADSFIVEDIYNSPELAKYLVKDNKNLTYSTNMRKD 321
DB 307 LAGAVPVYVLPGRANIEFVRGAFIHVDDFPSASSLASYLELDNRNPAVRYRYHMRKS 366
QY 322 FTVNLPFWESHACIACDHVKRHOEY-KSYGNLEKMF 357
DB 367 YAVHITSFWDEPWCRCQAVDAGDRKPSIRNLASWF 403

RESULT 8

US-09-042-531-8
Sequence 8, Application US/09042531

Patent No. 6268193

GENERAL INFORMATION:

APPLICANT: LOWE, JOHN B.

TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS

TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,

TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION

TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,

ADDRESSEE: P.C.

STREET: 1755 Jefferson Davis Highway, Fourth Floor

CITY: Arlington

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US 09/042,531

FILING DATE: 14-AUG-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/393,246

FILING DATE:

APPLICATION NUMBER: US 08/220,433

FILING DATE: 30-MAR-1994

APPLICATION NUMBER: US 07/914,281

FILING DATE: 20-JUL-1992

ATTORNEY/AGENT INFORMATION:

CURRENT APPLICATION DATA:

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: APPLICATION NUMBER: US/09/042,531
: FILING DATE:
:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/393,246
: FILING DATE:
: APPLICATION NUMBER: US 08/220,433
: FILING DATE: 30-MAR-1994
: APPLICATION NUMBER: US 07/914,281
: FILING DATE: 20-JUL-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Lavalleye, Jean-Paul M. P.
: REGISTRATION NUMBER: 31,451
: REFERENCE/DOCKET NUMBER: 2363-060-55
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703)521-4500
: TELEFAX: (703)486-2347
:
: TELERX: 248855 OPAT UR
: INFORMATION FOR SEQ ID NO: 8:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 405 amino acids
: TYPE: amino acid
: TOPOLOGY: unknown
: MOLECULE TYPE: protein
:
: US-09-042-531-8

```

Query Match	34.9%	Score 687.5	DB 4	Length 405
Best Local Similarity	38.5%	Pred. No. 3.8e-58		
Matches 153; Conservative	59	Mismatches 110	Indels 75	Gaps 14

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QY 15 VCIILGCEMAC-LLIYI-----KPTNSIFSPMESASSVLMKKNFESTKDYFNETTILY 68
Db 28 VCIIAAGLITCALITYACMGQLPRLPMA-SPTPS-----RPGVTL 68
QY 69 WWPFGGQTFDL-----TSCQAFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
Db 69 WWPFGGQTFDL-----TSCQAFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
QY 69 WWPFGGQTFDL-----TSCQAFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
Db 69 WWPFGGQTFDL-----TSCQAFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
QY 116 -----DLTNLPOQ-----ARPFQKIMNNLSPTHTP-QKSGIEHL 151
Db 129 GICQHTAEVDLRLVDYEEAAAAAALATSSRPFGQKWMNNFSPHSFGLRSLASML 188
QY 152 FNLTLTRRSDIOYVGYFLTVSNPFEVEYS-----KEKLCVWVSWMNBEHARY 203
Db 189 FNMTLSTRADSDVFEVGYFLRPSHP--GDPSGLAPLRLSRQGLVAMVWSHMDERQAY 246
QY 204 KYNNLSKSIEIHTYGOAF-GEYVNDKMLPIPLISACKFLTSPENSIHKDYITEKLY-NAF 261
Db 247 KYHOLSOHVYDVYGRGPGQVPEIGLHTVARYKFLAEENSQHDLYITEKLMRNL 306
QY 262 LAGSVAVVLGCSRENYENYIPADSFIEHEDYNSPSELAKYLEKVNKNNKLYSYFNMRKD 321
Db 307 LAGAVPVVLGDPNARYEKVPRGCAITHVDDPFSSASIASYLLFLDRBNPARYRYRTHWRMS 366
QY 322 FTVNLPFWESIACLACHVKRHQEY-KSVGNLEKWF 357
Db 367 YAVHTISFWDPEWCRVCOAYORAGRPSIRMLASWF 403

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RESULT 9
 US-08-483-151-4
 : Sequence 4, Application US/08483151
 : Patent No. 5858752
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Seed, Brian
 : APPLICANT: Holgersson, Jan
 : TITLE OF INVENTION: FUCOSYLTRANSFERASE GENES AND USES THEREOF
 : NUMBER OF SEQUENCES: 4
 :
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Fish & Richardson P.C.
 : STREET: 225 Franklin Street
 : CITY: Boston
 : STATE: MA
 :

```

1  COUNTRY:  USA
2  ZIP:  02110-2804
3
4  COMPUTER READABLE FORM:
5
6  MEDIUM TYPE:  Floppy disk
7  COMPUTER:  IBM PC compatible
8  OPERATING SYSTEM:  PC-DOS/MS-DOS
9  SOFTWARE:  PatentIn Release #1.0, Version #1.30
10
11 CURRENT APPLICATION DATA:
12   APPLICATION NUMBER:  US/08/483,151
13   FILING DATE:  07-JUN-1995
14   CLASSIFICATION:  530
15
16 ATTORNEY/AGENT INFORMATION:
17
18   NAME:  Lech, Karen F.
19   REGISTRATION NUMBER:  35,238
20   REFERENCE/DOCKET NUMBER:  00786/278001
21
22 TELECOMMUNICATION INFORMATION:
23
24   TELEPHONE:  617/542-5070
25   TELEFAX:  617/542-8906
26
27   TELEX:  200154
28
29 INFORMATION FOR SEQ ID NO:  4:
30
31   SEQUENCE CHARACTERISTICS:
32     LENGTH:  405 amino acids
33     TYPE:  amino acid
34     STRANDEDNESS:  not relevant
35     TOPOLOGY:  linear
36
37   MOLECULE TYPE:  protein
38
39   US-08-483-151-4

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Query Match	34.28;	Score 673.5;	DB 2;	Length 405;
Best Local Similarity	37.88;	Pred. No. 8.6e-57;		
Matches 150; Conservative	61;	Mismatches 111;	Indels 75;	Gaps 14

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0Y      15 VCIILGCFMAC-LLIYI-----KPTNSLFSFSPMESASSVLKMKNFESTKDYENETILV 68
        ||:::  :|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      28 VCVLLAAGITGCTALITTYACWGOLPLPMA-SPTPS-----RPYGVLL 68
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
0Y      69 WWPMPGQTFEDL-----TSCQAMENIOGCHITTRSLYNNKSHAVLIHHRDI-----SW----- 115
        |  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      69 WMEPPGCAISAPRRPDDCKLRNINISGCRLLTTRASGEGOAIVLFHHRDLVKGPDPMPPMW 128
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0Y      116 -----DLTNLPQQ-----ARPPFOKWNWNLSPHTP--OKSGIEHL 151
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Db      129 GIQAHTAEVDRLVDYEEAANAAALATSSRPRAKRWMMNFPSSPSPLGRSLASNL 188
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0Y      152 FNLTLTTRRDDIOYVGEFLTVSTNPFVEFVS-----KEKLVQWVSNMBEHARY 203
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      189 FNMWLTSTRADSDVFLPYGYLPRSHR--GDPSGLAPLPSRKQGLVAMVSHMDEQAVY 246
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
0Y      204 KYNNELSKSIEIHTYGAQF-GEYVNDKNIPIISACKFYLSTENSIHKDYITEKLY-NAF 261
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      247 RYHQSLQSHVTVDVVGRGGRGPVBEIGLHTHVARYKFLYALFENSQHDLDYTEKLMRNL 306
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
0Y      262 LAGSVPYVLGSRREMYENTIPADSFITHVDIYSPBELAKYLEVDKNNKLIYSTNNKRL 321
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      307 LAGAPVYVLGSPRANYERFVPGCAITHVDDFSSASSLASYLLFLDRNPVAVRYRYFHWRRS 366
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
0Y      322 FTYVNLPRFWESHACLACDHYKRRHQY-KSVGLUEKWF 357
        ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||  ||
Db      367 YAVHTTSFWDPEWCRCAVQVQARGNPSIRNLNAWF 403

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1 RESULT 10
2 PCT-US91-00899-6
3 Sequence 6, Application PC/TUS9100899
4 GENERAL INFORMATION:
5 APPLICANT: Lowe, John B.
6 TITLE OF INVENTION: Method and Products for the Synthesis of
7 TITLE OF INVENTION: Oligosaccharide Structures on Glycoproteins, Glycolipids
8 TITLE OF INVENTION: or as Free Molecules, and for the Isolation of Cloned
9 TITLE OF INVENTION: Genetic Sequences That Determine These Structures
10 NUMBER OF SEQUENCES: 16
11 CORRESPONDENCE ADDRESS:
12 ADDRESSEE: OBLOM, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
13

```

```

; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Suite 400
; City: Arlington
; STATE: Virginia
; ZIP: 22202
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US91/00899
; FILING DATE: 19910214
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavallee Ph.D., Jean-Paul
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-021-55 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-5940
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 299 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; HYPOTHEICAL: YES
; FRAGMENT TYPE: C-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Blood
; CELL LINE: A431
; PCT-US91-00899-6

Query Match 33.9%; Score 667; DB 5; Length 299;
Best Local Similarity 43.1%; Pred. No. 2.3e-56;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

QY 66 ILVWVWPFQGTDLTSCQAMF-NIGCHLTDRSLYKSHAVLIHHRDISMDC-----TN 119
DB 3 ILMTWPFHLPVALSCSEMVGCTADCHITADRKATYQADTVYVH---WDIMSNPKSR 58
QY 120 LPOQARPPQKATWMLNLESPHTFPQKSGIEHLFNLTLYRRDSIOVPGFLTV-STNPF 178
DB 59 LPSPRQOGKMTWMLNLEPPPCQHLBALDRYFNLTMSYRSDSIFTPYGMLEPWSGQPA 118
QY 179 -VEEVPSEKELVCWVSNMNPDEHARVRYNELSKSIEIHTYGAQGEYVNDKNLIPTIS 236
DB 119 HPLINLSAKTELVAWAVSNMKNPD SARVRYOSLOAHKLVYVGRSH-KPLPKGTMMETLS 177
QY 237 ACFFYLSEFNSIHKDYITEKLY-NAFLAGSVVVLGFSRENYENYIPADSFIVHEDYNSP 295
DB 178 RYFFYLAFENSILHPDYITEKLTWRNALFAMAVPVVLGFSRSNYERFLPPDAFIHVDFQSP 237
QY 296 SELAKYLKEVDKNNKLYSYFNMKRDFTVNLPR--FWESHACIACDCHVKKHGYKSGYNL 353
DB 238 KDLARLYQELDKDHARYLSYFNMKRETLR---PRFSNALDPCRAKCKLQGESRYQYVRSI 294
QY 354 EKMF 357
DB 295 AAMF 298

RESULT 11
US-07-914-281-2
; Sequence 2, Application US/07914281
; Patent No. 5324663
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
```

```

; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; City: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/914,281
; FILING DATE: 19920720
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavallee, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-914-281-2

Query Match 33.9%; Score 667; DB 1; Length 361;
Best Local Similarity 43.1%; Pred. No. 3.1e-56;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

QY 66 ILVWVWPFQGTDLTSCQAMF-NIGCHLTDRSLYKSHAVLIHHRDISMDC-----TN 119
DB 65 ILMTWPFHLPVALSCSEMVGCTADCHITADRKATYQADTVYVH---WDIMSNPKSR 120
QY 120 LPOQARPPQKATWMLNLESPHTFPQKSGIEHLFNLTLYRRDSIOVPGFLTV-STNPF 178
DB 121 LPSPRQOGKMTWMLNLEPPPCQHLBALDRYFNLTMSYRSDSIFTPYGMLEPWSGQPA 180
QY 179 -VEEVPSEKELVCWVSNMNPDEHARVRYNELSKSIEIHTYGAQGEYVNDKNLIPTIS 236
DB 181 HPLINLSAKTELVAWAVSNMKNPD SARVRYOSLOAHKLVYVGRSH-KPLPKGTMMETLS 239
QY 237 ACFFYLSEFNSIHKDYITEKLY-NAFLAGSVVVLGFSRENYENYIPADSFIVHEDYNSP 295
DB 240 RYFFYLAFENSILHPDYITEKLTWRNALFAMAVPVVLGFSRSNYERFLPPDAFIHVDFQSP 299
QY 296 SELAKYLKEVDKNNKLYSYFNMKRDFTVNLPR--FWESHACIACDCHVKKHGYKSGYNL 353
DB 300 KDLARLYQELDKDHARYLSYFNMKRETLR---PRFSNALDPCRAKCKLQGESRYQYVRSI 356
QY 354 EKMF 357
DB 357 AAMF 360

RESULT 12
US-08-393-246-2
; Sequence 2, Application US/08393246
; Patent No. 5595900
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
```

;; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
;; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
;; NUMBER OF SEQUENCES: 14
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
;; ADDRESS: P.C.
;; STREET: 1755 Jefferson Davis Highway, Fourth Floor
;; CITY: Arlington
;; STATE: Virginia
;; COUNTRY: U.S.A.
;; ZIP: 22202
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.25
;;
;; CURRENT APPLICATION NUMBER: US/08/393,246
;;
;; FILING DATE:
;; CLASSIFICATION: 530
;;
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/220,433
;; FILING DATE: 30-MAR-1994
;; APPLICATION NUMBER: US 07/914,281
;; FILING DATE: 20-JUL-1992
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Lavallee, Jean-Paul M. P.
;; REGISTRATION NUMBER: 31,451
;; REFERENCE/DOCKET NUMBER: 2363-060-55
;;
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (703)521-4500
;; TELEFAX: (703)486-2347
;; TELEX: 248855 OPAT UR
;;
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 361 amino acids
;; TYPE: amino acid
;; TOPOLOGY: unknown
;; MOLECULE TYPE: protein
;;
;; US-08-393-246-2

Query Match 33.9%; Score 667; DB 1; Length 361;
Best Local Similarity 43.1%; Pred. No. 3,1e-56;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;
QY 66 ILVWVWPGQTFDLTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHHRDISWDL-----TN 119
DB 65 ILLMTWPHPIVALSRCESEWPGTADCHITADRKVYQADVTIVHH---WDIMSNPKSR 120
QY 120 LPOQARPPFOKIMWNNLESPTHTPKSGIEHFNLTLYRRSDIOVRYGFLTV-STNPF 178
DB 121 LPPSPRPOGQRIWNNLEPPPCQHLLEADRYFNLTMSYRSDIFTPYGWLPEWPGQPA 180
QY 179 --VFEPSEKELVWVWNNMNEHARVRYNELSKSIEIHITYGQAFGEVYNDKNLIPTIS 236
DB 181 HPLMLSAKTELVAWVAWNNKPKDSARVRYQSLQAHKLVDYGRSH-KPLPGTMMETIS 239
QY 237 ACKFYLSFENSIIHKDYITEKLY-NAFLAGSVPVVLGSPRENEYNIIPADSFTHVEDYNSP 295
DB 240 RKFYLAFENSIIHPDYITEKILMRNLLEMAWVAVVVLGSPRSNYERLPPDAFIHVDDFQSP 299
QY 296 SELAYLKEVKNKNTLYSTFNWKRDFVNNLPR--FWESHACLADHVKRHOEYKSYGNL 353
DB 300 KDLARTLOELDQDARVLYSTFRWRETLR--PRSPSWALDFCKACWKLDQESRYQTVRSI 356
QY 354 EKWF 357
DB 357 AAMF 360
RESULT 13
US-08-273-411-3
; Sequence 3, Application US/08273411

;; Patent No. 5625124
;; GENERAL INFORMATION:
;; APPLICANT: Falk, Per
;; APPLICANT: Gordon, Jeffrey I.
;; TITLE OF INVENTION: Animal Model for Gastro-Intestinal
;; TITLE OF INVENTION: Disease
;; NUMBER OF SEQUENCES: 10
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Patrea L. Pabst
;; STREET: 1100 Peachtree Street, Suite 2800
;; CITY: Atlanta
;; STATE: Georgia
;; COUNTRY: USA
;; ZIP: 30309-4530
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.25
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/273,411
;; FILING DATE:
;; CLASSIFICATION: 435
;;
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Pabst, Patrea L.
;; REGISTRATION NUMBER: 31,284
;; REFERENCE/DOCKET NUMBER: W0106
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (404) 815-6508
;; TELEFAX: (404) 815-6555
;;
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 361 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE: Internal
;; FEATURE:
;; NAME/KEY: misc-feature
;; LOCATION: 1..361
;; OTHER INFORMATION: /note="GDP-L-fucose:beta-D-N-acetylglucosaminide-3,4-alpha
;; PUBLICATION INFORMATION:
;; AUTHORS: Kukowska-Latallo, et al.
;; JOURNAL: Genes & Development
;; VOLUME: 4
;; PAGES: 1288-1303
;; DATE: 1990
;;
;; RELEVANT RESIDUES IN SEQ ID NO: 3: FROM 1 TO 361
;;
;; US-08-273-411-3

Query Match 33.9%; Score 667; DB 1; Length 361;
Best Local Similarity 43.1%; Pred. No. 3,1e-56;
Matches 131; Conservative 55; Mismatches 99; Indels 20; Gaps 9;
QY 66 ILVWVWPGQTFDLTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHHRDISWDL-----TN 119
DB 65 ILLMTWPHPIVALSRCESEWPGTADCHITADRKVYQADVTIVHH---WDIMSNPKSR 120
QY 120 LPOQARPPFOKIMWNNLESPTHTPKSGIEHFNLTLYRRSDIOVRYGFLTV-STNPF 178
DB 121 LPPSPRPOGQRIWNNLEPPPCQHLLEADRYFNLTMSYRSDIFTPYGWLPEWPGQPA 180
QY 179 --VFEPSEKELVWVWNNMNEHARVRYNELSKSIEIHITYGQAFGEVYNDKNLIPTIS 236
DB 181 HPLMLSAKTELVAWVAWNNKPKDSARVRYQSLQAHKLVDYGRSH-KPLPGTMMETIS 239
QY 237 ACKFYLSFENSIIHKDYITEKLY-NAFLAGSVPVVLGSPRENEYNIIPADSFTHVEDYNSP 295
DB 240 RKFYLAFENSIIHPDYITEKILMRNLLEMAWVAVVVLGSPRSNYERLPPDAFIHVDDFQSP 299

Fri Nov 22 13:32:39 2002

us-09-744-748-2.rai

Page 8

QY 296 SELAKYLFREVDKNNKLYSYFNMRKDETVNLP--FWESHACLADHWKRRHQEYKSYGNL 353
Db 300 KDLARYLOELDKHARYLSYFRWRETLR--PRFSWALDFCKACWKLOQESRYQYVRSI 356
QY 354 EKWF 357
Db 357 AAMF 360

RESULT 14

US-08-525-058A-2
Sequence 2, Application US/08525058A
Patent No. 5770420

GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: OLIGOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESS: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: US/08/525,058A
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavallee, Jean-Paul M. P.
REGISTRATION NUMBER: 1,451
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-525-058A-2

Query Match

Best Local Similarity 43.1%; Score 667; DB 1; Length 361;
Matches 131; Conservative 55; Mismatches 96; Indels 20; Gaps 9;

QY 66 ILVWVPFGQDTLSCQAMF-NIOGCHLTDRSLYKSHAVLIHHRDISMDL-----TN 119
Db 65 ILVWVPFHPIVALSKSEWPGTADCHITADRYVYVH-----WDIMSNPKSR 120
QY 120 LPQARPEFOKWMNLESTPTPKSGIEHLNLTLYRSDSDIOVYGLTV-STNPF 178
Db 121 LPSPRPOGQRMWNLNPPNCOHLEALDRYFNLTMSYRSDSDIFTYGLWLEWSGQPA 180
QY 179 --VEVPSKRLVCVYVWNNPEHARVYKYNELSKSIEHTYQAGFEVYVNDKNLPTIS 236
Db 181 HPLPLNSATETELVAVAVSWKPKDSARVYKXOSLOAHILKYVYGRSH-KPLPGKIMMETLS 239
QY 237 ACFEYISFNSTHDKYITERYKLY-NAFLAGSVYVLPSPSENEYIYPAQSLFHWEDNSP 295
Db 240 RKFKTLKENSHPDYITERYKLMRNLALAMAVYVLDPSNSNTERLPPDAIHHVDQSP 299
QY 296 SELAKYLFREVDKNNKLYSYFNMRKDETVNLP--FWESHACLADHWKRRHQEYKSYGNL 353

Db 300 KDLARYLOELDKHARYLSYFRWRETLR--PRFSWALDFCKACWKLOQESRYQYVRSI 356
QY 354 EKWF 357
Db 357 AAMF 360

RESULT 15

US-08-696-731-2
Sequence 2, Application US/08696731
Patent No. 595347

GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: OLIGOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESS: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: US/08/696,731
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavallee, Jean-Paul M. P.
REGISTRATION NUMBER: 1,451
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-696-731-2

Query Match

Best Local Similarity 43.1%; Score 667; DB 2; Length 361;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

QY 66 ILVWVPFGQDTLSCQAMF-NIOGCHLTDRSLYKSHAVLIHHRDISMDL-----TN 119
Db 65 ILVWVPFHPIVALSKSEWPGTADCHITADRYVYVH-----WDIMSNPKSR 120
QY 120 LPQARPEFOKWMNLESTPTPKSGIEHLNLTLYRSDSDIOVYGLTV-STNPF 178
Db 121 LPSPRPOGQRMWNLNPPNCOHLEALDRYFNLTMSYRSDSDIFTYGLWLEWSGQPA 180
QY 179 --VEVPSKRLVCVYVWNNPEHARVYKYNELSKSIEHTYQAGFEVYVNDKNLPTIS 236

Db 181 HPLNLSAKTETLVAMAAVSNMKNPKDPAARVRYQSLQAHNLKVDVYGRSH-KPLPKGTMMETLS 239

Qy 237 ACKRYLSEFENSIRKDYITEKLY-NAFLAGSVPVVLGFSRENYENYIPADSFIVEHDYNSP 295

Db 240 RYKRYLAFENSLHPDYITEKLMRALPAMAAVYVLGFSRSNTEREFLPPDAFIVHDFQSP 299

Qy 296 SELAKYLAKENDKNNKLYLSTFNNMKDFTVLP-RFWESHACIADHVAKKHQETKSYGNL 353

Db 300 KDLARYLQELDKDHARLYSYFRMRETLR--PRSFWALDFCAKCAWKLQOESRYQVRSI 356

Qy 354 EKWF 357

Db 357 AAMP 360

Search completed: November 22, 2002, 13:32:41
Job time : 13 secs



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OY 299 AKYKEVDKNNKLYLSPFNMRKDTVNLPRFWESHACIACDHVK-RHOEYKSVGNLEKMF 357
 DB 295 ATYIKFLDKNRPSTYRFRFAMRNKYEVHTSEWDEHYCKVCEAVTAGNOLKTVONLAGWF 354

RESULT 2

US-09-733-524-8

Sequence 8, Application US/09733524
 Patent No. US20020068347A1
 GENERAL INFORMATION:
 APPLICANT: The Governors of the University of Alberta, a Canada Corporation
 APPLICANT: Taylor, Diane E.
 APPLICANT: Ge, Zhongming
 TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
 TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
 TITLE OF INVENTION: EXPRESSING THEM
 FILE REFERENCE: 07254/049002
 CURRENT APPLICATION NUMBER: US/09/733,524
 PRIOR FILING DATE: 1998-06-05/092,315
 PRIOR FILING DATE: 1998-06-05/092,315
 PRIOR FILING DATE: 1997-06-06
 NUMBER OF SEQ ID NOS: 20
 SOFTWARE: FASTSEQ for Windows Version 4.0
 SEQ ID NO 8
 LENGTH: 355
 TYPE: PRT
 ORGANISM: Gallus gallus
 FEATURE:
 NAME/KEY: PEPTIDE
 LOCATION: (0)...(0)
 OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Cfuct1
 US-09-733-524-8

Query Match 39.1%; Score 769.5; DB 10; Length 355;
 Best Local Similarity 49.5%; Pred. No. 3.9e-59;
 Matches 146; Conservative 51; Mismatches 95; Indels 5; Gaps 5;

OY 63 ETTILVWVPFGOTFDLTSCAMNIOGCHLTDRSLYKSHAVLIHHRDIS-WDLTNP 121
 DB 56 EYVLLMPEPRGPRWPRADCRRTNITGCLLSADRGGERAVLFIHRDLALHGRGLP 115
 OY 122 Q-QARPPQKIMWNLESPTTPQKSGIEHLFNLTLTYRSDSIQVPGFTVSTNPFV 180
 DB 116 RGPFRPPQKIMWNLESPTTPQKSGIEHLFNLTLTYRSDSIQVPGFTVSTNPFV 175
 OY 181 EVSPREKLVCMVSNMPEHARVYKYNELSKSIEIHTYGOAFGEVYNDKNIPTISACKF 240
 DB 176 VLPKRSRLVAVVVISWNEHARVRYRQLKEHLPLDYVG-ARGMALLLEGSVYKTSAYKF 234
 OY 241 YLSPENSIHKYITEKL-NAFLAGSVPVVLPSPRENTYIPADSFTHVEDYNSPSELA 299
 DB 235 YLAFYNSOHTDYITRKLTKKNAFAASAVPVVLPGRANERYEPIPADSFTHVEDPSPRLA 294
 OY 300 KYLEKVDNNKLYLSPFNMRKDTVNLPRFWESHACIACDHVK-RHOEYKSVGNLEKMF 357
 DB 295 ATYIKFLDKNRPSTYRFRFAMRNKYEVHTSEWDEHYCKVCEAVTAGNOLKTVONLAGWF 353

RESULT 3

US-10-120-319-11

Sequence 11, Application US/10120319
 Patent No. US20020164749A1
 GENERAL INFORMATION:
 APPLICANT: Taylor, Diane E.
 APPLICANT: Ge, Zhongming
 TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
 FILE REFERENCE: 07254/049001
 CURRENT APPLICATION NUMBER: US/10/120,319
 CURRENT FILING DATE: 2002-04-09
 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315

PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
 PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
 NUMBER OF SEQ ID NOS: 22
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO 11
 LENGTH: 433
 TYPE: PRT
 ORGANISM: Mus musculus
 US-10-120-319-11

Query Match 35.7%; Score 703; DB 9; Length 433;
 Best Local Similarity 42.4%; Pred. No. 2.8e-53;
 Matches 145; Conservative 46; Mismatches 96; Indels 52; Gaps 8;

OY 66 ILLVWVPF---GOTFDLTSCAMNIOGCHLTDRSLYKSHAVLIHHRDISWDLTNP 121
 DB 92 VLLMPEPRGGRGTPKSPDCLAFNISCGLIDKRAVGRQAVLHHRDLYKELHDP 151
 OY 122 QQ-----ARPPQKIMWNLESPTTPQKSG 147
 DB 152 PPGARERTKALVLRFPDDEGAVTLTGKALETVGSKRPQKRWMMNFPESHTPGLRG 211
 OY 148 I-EHLFNLTLTYRSDSIQVPGFTVSTNPFVEVPS-----KEKLVCMVSNMNP 198
 DB 212 LAKDLFNMWLTYSRSDSDVFPVGYGLYSKSDP--TEOPSGLOPOLARRKGLAVAVSWNE 269
 OY 199 EHARVYKYNELSKSIEIHTYGOAF-GEVYNDKNIPTISACKFYLSFENSIHKDYITEKL 257
 DB 270 HQARVRYHQLSRHVSVDVFGRTGPRVPAIGLHFAVARKFYLAENSHRDYITEKL 329
 OY 258 Y-NAFLAGSVPVVLPSPRENTYIPADSFTHVEDYNSPELAKYLEKVDNNKLYLSPF 316
 DB 330 WRNFAVAVPVVLPGRANERYEPIPADSFTHVEDPMASTLAVLFLDRNVAVYRYE 389
 OY 317 NWKRDFTVNLPRFWESHACIACDHVK-RHOEYKSVGNLEKMF 357
 DB 390 RWRKSFVHITSFWDQWCRITCOAVOISGDPKSIHNLDMF 431

RESULT 4

US-09-863-475A-8

Sequence 8, Application US/09863475A
 Patent No. US20020102688A1
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 P.C.
 STREET: 1755 Jefferson Davis Highway, Fourth floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/863,475A
 FILING DATE: 24-May-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/914,281
 FILING DATE: 20-JUL-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavalleye, Jean-Paul M. P.

```

;
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
;
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-863-475A-8

Query Match          34.9%; Score 687.5; DB 10; Length 405;
Best Local Similarity 38.5%; Pred. No. 5,6e-52;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILCFMAC--LLIYI---KPTNSWIFSPESASVYKMKNFSTKDYFNETTIIY-68
DB 28 VCIILAAAGLCTRLITYACMGQLPLPMA-SPTPS-----RPGVILL 68
QY 69 WWPFGQTFDL---TSCQAMFNIOGCHLTDRSLYKSHAVLIHHRDI-----SW----115
DB 69 WWPFGGRDSAPRPDPDCLRFNISCRLITDRASVGEQAVLFHHRDLVKGPDPMPPW 128
QY 116 -----DITNLPQO-----ARPPQKIMWMLSEPTHTP-QKSGIEHL 151
DB 129 GIOAHTAEVDLRLVLDYEAAAAAALATSSPPRPGQRMWVWVNFESPSPGSLASLNI 188
QY 152 FNTLTFRDSDIOVPGFLTVSTNPFVEVPS-----KEKLYCWVYSNNPBAHY 203
DB 189 FNTLTFRDSDIOVPGFLTVSTNPFVEVPS-----KEKLYCWVYSNNPBAHY 203
QY 204 KYNNLSKSIHTYGOAF-GEYVNDKNIPTISACKFYLSFENSIRKDYITEKLY-NAF 261
DB 247 RYHQLSQHTVYDVFGRGGQVPELGLHTVARYKFYLAFFENSOHLDTTEKLRNML 306
QY 262 LAGSVVYVIGPSRENTENTIPADSFIVHEDYNSPSELAKYLDKNNKLYLSEFMWRKD 321
DB 307 LAGSVVYVIGPSRENTENTIPADSFIVHEDYNSPSELAKYLDKNNKLYLSEFMWRKD 321
QY 322 FTVNLPFMEHSHACLADHYKRAOEY-KSYGNLEKWF 357
DB 367 YAVHITSFMDPCWRCQAVQAGDRPKSIRNLASNF 403

RESULT 5
US-09-733-524-7
; Sequence 7, Application US/09733524
; Patent No. US20020068347A1
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE OF INVENTION: EXPRESSING THEM
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 432
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:

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; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - MfuC74
US-09-733-524-7

Query Match          34.3%; Score 675.5; DB 10; Length 432;
Best Local Similarity 41.8%; Pred. No. 6,6e-51;
Matches 143; Conservative 49; Mismatches 97; Indels 53; Gaps 9;

QY 66 ILVWVWF-----GQTFDLTSCQAMFNIOGCHLTDRSLYKSHAVLIHHRDLSMDITNP 121
DB 92 VLLWMEFPRGGRGPKSPDCLRFNISCRLITDRASVGEQAVLFHHRDLVKGPDPMPPW 151
QY 122 QQ-----ARPPQKIMWMLSEPTHTP-QKSG 147
DB 152 PMGAREPRDKALVLRFPDDQCAVTLTKALETVSSRRPGQRMWVWVNFESPSPGSL 211
QY 148 I-EHLFNTLTFRDSDIOVPGFLTVSTNPFVEVPS-----KEKLYCWVYSNNP 198
DB 212 LAKDLEFNTLTFRDSDIOVPGFLTVSTNPFVEVPS-----KEKLYCWVYSNNP 269
QY 199 EHAQVYVIELSKSIHTYGOAF-GEYVNDKNIPTISACKFYLSFENSIRKDYITEKLY 257
DB 270 HQARVRYTHQLSRHVSVDVFGRTGCRPVPALGLHTVARYKFYLAFFENSOHLDTTEK 329
QY 258 Y-NAFLAGSVVYVIGPSRENTENTIPADSFIVHEDYNSPSELAKYLDKNNKLYLSEF 316
DB 330 WRNAPLAGAVPYVLG-DRANIERFVRGAFIHYDDPNAASLAAYLFLDRNVAVYRYE 388
QY 317 NWRKDETVNLPRFESHACLADHYKRAH-OEYKSYGNLEKWF 357
DB 389 RWRKSFVAVHITSFMDPCWRCQAVQAGDRPKSIRNLASNF 430

RESULT 6
US-09-863-475A-2
; Sequence 2, Application US/09863475A
; Patent No. US20020102688A1
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
;
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSER: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,475A
; FILING DATE: 24-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELE: 248855 OPAT UR

```

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 361 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 US-09-863-475A-2

Query Match 33.9%; Score 667; DB 10; Length 361;
 Best Local Similarity 43.1%; Pred. No. 2.8e-50;
 Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

QY 66 ILVWVPGQTDFDITSCQAMF-NIOGCHLTTRSLYKNSHAVLIHHRDISMDL-----TN 119
 DB 65 ILLMTWPFHPIVALSRCSMVGSTADCHITADRKVYQADAVIYVH---WDIMSNPKSR 120
 QY 120 LPOQARPPQKWMNLSPTHTPKSGIEHLENTLTYRRSDIOVYGFGLTV-STNPF 178
 DB 121 LPPSPRPGQKRWYNLEPPNCOHLEALDRYFNLTMSYRSDSLFTFPGWLEPWSGQPA 180
 QY 179 --VEVPSKEKIVCWVSNWNPENHARKVRYNLSKSIHTYGAFGYVNDKNIPTIS 236
 DB 181 HPLNLSTAKTELAVAAVSNMFKDSARVRYOSLQAHKLVYGRSH-KPLPKGTMMETLS 239
 QY 237 ACKFVLSRNSIHKDYITEKLY-NAFLAGSVPVVLPSPRENYENYIPADSFTHEDYNSP 295
 DB 240 RYKFLAEENSLHPDYITEKLMRNALFMAVAVVYLPSPRSNYERFLPPDAFIHDDQSPKDLA 299
 QY 236 SELATYLEVDKNNKLYSYFNMRKDFYVNLPR--FWESHACLDHVKRHOEYKSGVNL 353
 DB 300 KDLATYLEDKDHARYLSTYFRWRETLR--PRSPSMALDFCKACWKIQQESRYQTYSRI 356
 QY 354 EKWF 357
 DB 357 AAMF 360

RESULT 7
 US-09-863-475A-11
 Sequence 11, Application US/09863475A
 Patent No. US20020102688A1
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: ORION, SPVAK, MCCLELLAND, MAIER & NEUSTADT,
 P.C.C. Jefferson Davis Highway, Fourth floor
 STREET: 1755 Jefferson Davis Highway, Fourth floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/863,475A
 FILING DATE: 24-May-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/914,281
 FILING DATE: 20-JUL-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavallee, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELE: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 374 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 US-09-863-475A-11

Query Match 33.9%; Score 667; DB 10; Length 374;
 Best Local Similarity 43.7%; Pred. No. 3e-50;
 Matches 131; Conservative 56; Mismatches 99; Indels 12; Gaps 8;

QY 66 ILVWVPGQTDFDITSCQAMF-NIOGCHLTTRSLYKNSHAVLIHHRDISMDL-LTNLPQO 123
 DB 78 ILLMTWPFHPIVALSRCSMVGSTADCHITADRKVYQADAVIYVHWDIMVNSANLPP 137
 QY 124 ARPPQKWMNLSPTHTPKSGIEHLENTLTYRRSDIOVYGFGLTV-STNPF--VF 180
 DB 138 TRPGQKRWYNLEPPNCOHLEALDRYFNLTMSYRSDSLFTFPGWLEPWSGQPAHPL 197
 QY 181 EVPSKEKIVCWVSNWNPENHARKVRYNLSKSIHTYGAFGYVNDKNIPTISACKF 240
 DB 198 NLSTAKTELAVAAVSNMFKDSARVRYOSLQAHKLVYGRSH-KPLPKGTMMETLSRYKF 256
 QY 241 YLSRNSIHKDYITEKLY-NAFLAGSVPVVLPSPRENYENYIPADSFTHEDYNSPSELA 299
 DB 257 YLAEENSLHPDYITEKLMRNALFMAVAVVYLPSPRSNYERFLPPDAFIHDDQSPKDLA 316
 QY 300 KYLEVDKNNKLYSYFNMRKDFYVNLPR--FWESHACLDHVKRHOEYKSGVNLKWF 357
 DB 317 RYLEDKDHARYLSTYFRWRETLR--PRSPSMALDFCKACWKIQQESRYQTYSRIAMF 373

RESULT 8
 US-10-120-319-10
 Sequence 10, Application US/10120319
 Patent No. US20020164749A1
 GENERAL INFORMATION:
 APPLICANT: Taylor, Diane E.
 TITLE OF INVENTION: GE Zoning
 FILE REFERENCE: 07234/049001
 CURRENT APPLICATION NUMBER: US/10/120, 319
 PRIOR FILING DATE: 2002-04-09
 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
 PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
 PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
 NUMBER OF SEQ ID NOS: 22
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 10
 LENGTH: 359
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-120-319-10

Query Match 33.6%; Score 662.5; DB 9; Length 359;
 Best Local Similarity 42.8%; Pred. No. 6.9e-50;
 Matches 133; Conservative 59; Mismatches 106; Indels 13; Gaps 9;

QY 55 STKDYNETTIIIVWVPGQTDFDITSCQAMF-NIOGCHLTTRSLYKNSHAVLIHHRDI 113
 DB 53 STGPRAHSIPLILLMTWPFHPIVALSRCSMVGSTADCHITADRKVYQADAVIYVHREV 112
 QY 114 SWD-LTNLPQARPPQKWMNLSPTHTPKSGIEHLENTLTYRRSDIOVYGFGLTV 172
 DB 113 MNPSSALPSPRPGQKRWYNLEPPNCOHLEALDRYFNLTMSYRSDSLFTFPGWLE 172

Db 292 VDDFOSPKDLARYLQELDKDHR- YLSYFRWRETLR---PRFSMALAFCKACWKLOESR 347
QY 347 YKSGVNLKMF 357
Db 348 YOTRG-LAAMF 357

RESULT 11
US-10-120-319-9
; Sequence 9, Application US/10120319
; Patent No. US20020164749A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-120-319-9

Query Match 33.1%; Score 653; DB 9; Length 365;
Best Local Similarity 38.3%; Pred. No. 4,7e+49;
Matches 141; Conservative 68; Mismatches 117; Indels 42; Gaps 12;

QY 11 PELVICIILG-CFMACLI---YIKPTNSWI-----FSPMESASSYLKMKNFSTKTDY 60
Db 18 PGLLDLALALCFEYGLRMSQEKPRKPMVSELGAPSOATGSGAHPLR----- 68
QY 61 FNETTLVWVWPFGQTFDLTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHNRDISW-DLT 118
Db 69 -----VLMTWPFNDPVALSRCELSMGTADCOLTVNRSFYQADAVFVHREVSHPK 123
QY 119 NLPOQARPPQKWIWNLESPTHPOKSGIEHFNLTITRRSDIOVPYGL-----T 172
Db 124 QLPSPRPADQKRWVWSPMSNCLKLDLDGFNLTMSIRSDILFMFYGLMPEPSP 183
QY 173 VSTNPPEVFEVPSKEKLYCVVSNMNPENHARVKNYNELSKSIEIHTYGOAFGEYVNDKNIL 232
Db 184 VER---LNLISAKTKLVAVVSNMNTDSIRVOYIKLKLPHLDVYGR-FHTPLPHALMA 239
QY 233 PTISACKFYLSFENSIHKDYITEKLY-NAFLAGSVPVYLGSPRENYENTIPADSTIHVED 291
Db 240 KQLSQKFTFLAFENSLHPDYITTEKLMKMLQAMAVPVVLGSPRVNTEOFLPRAFIHVED 299
QY 292 YNSPSELATYKLEVDKNNKLYLSYFMNRKDFVNLPR--FWESHACLADHYKRRHOEYS 349
Db 300 FQSPKDLAQYLLALDKDYASLYNFMWRETLR---PRFSMALMFCCKACWKLOEPRYQT 356
QY 350 VGNLEKMF 357
Db 357 VPSIASMF 364

RESULT 12
US-09-733-524-5
; Sequence 5, Application US/09733524
; Patent No. US20020068347A1
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND

; TITLE OF INVENTION: EXPRESSING THEM
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Bos taurus
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Bfuct3
US-09-733-524-5

Query Match 30.9%; Score 608.5; DB 10; Length 364;
Best Local Similarity 37.2%; Pred. No. 3,2e+45;
Matches 137; Conservative 65; Mismatches 123; Indels 43; Gaps 13;

QY 11 PELVICIILG-CFMACLI---YIKPTNSWI-----FSPMESASSYLKMKNFSTKTDY 60
Db 18 PGLLDLALALCFEYGLRMSQEKPRKPMVSELGAPSOATGSGAHPLR----- 68
QY 61 FNETTLVWVWPFGQTFDLTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHNRDISW-DLT 118
Db 69 -----VLMTWPFNDPVALSRCELSMGTADCOLTVNRSFYQADAVFVHREVSHPK 123
QY 119 NLPOQARPPQKWIWNLESPTHPOKSGIEHFNLTITRRSDIOVPYGL-----T 172
Db 124 QLPSPRPADQKRWVWSPMSNCLKLDLDGFNLTMSIRSDILFMFYGLMPEPSP 183
QY 173 VSTNPPEVFEVPSKEKLYCVVSNMNPENHARVKNYNELSKSIEIHTYGOAFGEYVNDKNIL 232
Db 184 VER---LNLISAKTKLVAVVSNMNTDSIRVOYIKLKLPHLDVYGR-FHTPLPHALMA 239
QY 233 PTISACKFYLSFENSIHKDYITEKLY-NAFLAGSVPVYLGSPRENYENTIPADSTIHVED 291
Db 240 KQLSQKFTFLAFENSLHPDYITTEKLMKMLQAMAVPVVLGSPRVNTEOFLPRAFIHVED 299
QY 292 YNSPSELATYKLEVDKNNKLYLSYFMNRKDFVNLPR--FWESHACLADHYKRRHOEYS 349
Db 300 FQSPKDLAQYLLALDKDYS-VLITPRWRETLR---PRFSMALMFCCKACWKLOEPRYQT 355
QY 350 VGNLEKMF 357
Db 356 VPSIASMF 363

RESULT 13
US-09-784-077-2
; Sequence 2, Application US/09784077
; Patent No. US2002011469A1
; GENERAL INFORMATION:
; APPLICANT: NATSUKA, SHUNJI
; APPLICANT: GRSTEN, KEVIN M.
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: MARINE ALPHA (1,3) FUCOSYLTRANSFERASE
; FUC-TYVI, DNA ENCODING THE SAME, METHOD FOR PREPARING TH
; SAME, ANTIBODIES RECOGNIZING THE SAME, IMMUNOSSAYS FOR
; DETECTING THE SAME, PLASMIDS CONTAINING SUCH DNA
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: ORLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA

```

; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/784,077
; FILING DATE: 16-Feb-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/613,098
; FILING DATE: 08-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: LAVALLIE, JEAN-PAUL
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-114-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-413-3000
; TELEFAX: 703-413-2220
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 393 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-784-077-2

Query Match          29.4%; Score 579; DB 10; Length 393;
Best Local Similarity 39.0%; Pred. No. 1.3e-42;
Matches 119; Conservative 53; Mismatches 109; Indels 24; Gaps 8;

QY 65 TLVWMP-----GQFDLTSCQAMFNIGCHLTTRDSLYKNSHAVALIHRDISWD 116
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 99 TLIIWMPTRNPPELPGDT-----C-TRYGASCRLSANRSLASADAVVFHHRLOTR 152
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 117 LNLPOQAPPFOKTMMLLESPTHPKSGIEHLFNLTLTYRRSDIOVPYGFGLTVSN 176
   || || || || || || || || || || || || || || || || || || ||
DB 153 QSLPLDQPHQOPWMAEMESPSTHGLRFRGIFNWLSYRRSDIDIVPYGRLEPPLSG 212
   || || || || || || || || || || || || || || || || || || ||
QY 177 PFVEFVSRKELVCWVSWNPNDEHARVKYNNELSKSIEIHTYGOAFGEVYVNNKLIPT 236
   | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
DB 213 P-TSPFPAISRAAVYISNFQERQORAKLYRQLAHLQDVGRASGRCLANCLIPTLA 271
   :||:||||:|||||: || ||||| ||| ||||| :||:||||:
QY 237 ACKFYLSFENSJHKDYITEKLY-NAFLAGSVPLGSPRENTENYIPADSFTHVEDYNSP 295
   :||:||||:|||||: || ||||| ||| ||||| :||:||||:
DB 272 RYREFLAFENSGHRDYITEKFWRNMLAGAVPALGPPRATYEAFVPPDAFVHVDSSA 331
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 296 SELATLAKVDKNNKLYLSYFWMRKDFVNLPRFVESHACLAC---DHVKRHOETKSVGN 352
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 332 RELAAVFL--VSMNESHYRGFAMRDRLRVRLGLGDMRERCCTICARYPYLPSQVYE--D 386
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 353 LEKWF 357
   || ||
DB 387 LESWF 391

RESULT 14
US-09-731-872-284
; Sequence 284, Application US/09731872
; Patent No. US20020102604A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bougueterec, Lydie
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNAS ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78. US3. REG
; CURRENT APPLICATION NUMBER: US/09/731,872
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
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; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 284
; LENGTH: 406
; TYPE: prt
; ORGANISM: Homo sapiens
; FEATURE: SIGNAL
; NAME/KEY: SIGNAL
; LOCATION: -31...-1
US-09-731-872-284

Query Match          13.6%; Score 267; DB 10; Length 406;
Best Local Similarity 28.7%; Pred. No. 1.1e-15;
Matches 92; Conservative 57; Mismatches 112; Indels 60; Gaps 16;

QY 41 MESA-----SSVLKMKNF-FSTKTDY-FNETTLVWMPF-GQFDLTSCQAMFNIGCHL 93
   || | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
DB 94 MEAPTHLNSFLKKGTLFNRKRKWEIDSYPIMLMWSPLTGTRLGCGCA----DACEF 149
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 94 TTDRL--YKSHAVLIHRDISWDLTLNPOQARPPFOKIMNLESPT-----HTPOK 145
   | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
DB 150 TIRTYLHHHMTKAFLEFYGTDEPNIDSLPBRKAH---HDMAVFHESPKNNYKLFHKP-- 204
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 146 SCIEHLFNLTLTYRRSDIOVPYGLF---TVSTNPFVEVPSKREL-----YGMVSN 195
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 205 --VITLFNTAFPSRSHSLPTQYTESIEVLSKSLRYVLPLDSKNNLRRLAPLVYOSY 262
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 196 WNPENHARVRYNNELSKSIEIHTYGOAFGEVYVNNKLN-----IPTISACKF 240
   | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
DB 263 CPPSPGRDSYVEMLMTYIEVDY----GECLANKDLPOQKPNASMDAGFRIIAQYKF 318
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 YLSFENSJHKDYITEKLYNAFLAGSVPLVGL-PSRENTENYIPAD-SFTHVEDYNSPSEL 298
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 319 ILAFENAVCDYITEKFWRLKLGVPVYVYSGSPS---ITDMLPSKNSALIVSEFSHPREL 375
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 299 AKYKEVDKNNKLYSYFWMR 319
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 376 ASYIRLSDSDRLYEAYEYWK 396

RESULT 15
US-10-120-319-8
; Sequence 8, Application US/10120319
; Patent No. US20020164749A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 454
; TYPE: prt
; ORGANISM: Helicobacter pylori
US-10-120-319-8

Query Match          7.5%; Score 147; DB 9; Length 454;
Best Local Similarity 25.5%; Pred. No. 3e-05;
Matches 74; Conservative 47; Mismatches 113; Indels 56; Gaps 13;

QY 31 KPTNSWISPMESASSVLKMKNFSTKTDYF--NETTLVWMPFGQFDLTSCQAMFN 87
   || | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
DB 65 KPADIIVGNPLGSAKKIILSYON---TKRIFYGENES-----DNFNLDYALGIDEID 114
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Fri Nov 22 13:32:39 2002

us-09-744-748-2.rapb

QY 88 IOGCHLTDRSLYNKSHAVLIHHRDISMDLTNLPOARPPFOKWIMNLESPTHTPOKSG 147
Db 115 FR-----DYLRLMPLYYDRHLHKAESVNDTAPYKIKGN---SLYTLKPPSHCFK--- 161
QY 148 IEHLENTLTLYRRDSDIQVPYGLTVSTNPFEVEPSPREKLYCWWVSNWNPDEHARVRYN 207
Db 162 -ENHPNLCALINNESD-----PLKRGFSFVASNANAP--MRNAFYD 200
QY 208 ELKSIEIHTYGOA---FGEYVNDKNLIPITISACKFYLSPFENSIRKDYITERKLYNAFLA 263
Db 201 ALN-SIEPVTGGGAVKNTLGKVGKNS--EFLSQYKFNLCFENSGGYVTEKIIDAYFS 257
QY 264 GSVYVVLGSPRENEYENTIPADSFTHVEDYNSPSELATYKREVDKNNKLYL 313
Db 258 HTIPITYG-SPSYAKDENP-KSFVNVHDFNNFDEALIDYVRYLHTRPAYL 305

Search completed: November 22, 2002, 13:38:12
Job time : 9 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 22, 2002, 13:30:53 : Search time 138.5 Seconds

(without alignments)
1671.185 Million cell updates/sec

Title: US-09-744-748-2

Perfect score: 1970

Sequence: 1 MSTSGLRPLFLVCIILG.....HVKRHQEKSYGNLEKMFVN 359

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 10%

Listing first 45 summaries

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7: /cgn2_6/ptodata/1/paa/US083_COMB.pep:*

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26: /cgn2_6/ptodata/1/paa/US102_COMB.pep:*

27: /cgn2_6/ptodata/1/paa/US60_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1970	100.0	359	21	US-09-744-748-2
2	1961	99.5	359	21	US-09-744-748-1
3	792	40.2	356	1	PCT-US99-20354-7
4	792	40.2	356	25	US-10-120-319-12
5	792	40.2	356	25	US-10-189-977-12
6	769.5	39.1	355	21	US-09-733-524-8

	7	703	35.7	433	25	US-10-120-319-11	Sequence 11, Appl
	8	703	35.7	433	25 <td>US-10-189-977-11</td> <td>Sequence 11, Appl</td>	US-10-189-977-11	Sequence 11, Appl
	9	689.5	35.0	405	7	US-08-386-716-8	Sequence 8, Appl
	10	688	34.9	352	6	US-08-268-505-5	Sequence 5, Appl
	11	688	34.9	352	6	US-08-442-962-5	Sequence 8, Appl
	12	687.5	34.9	405	12	US-08-823-489-8	Sequence 8, Appl
	13	687.5	34.9	405	22	US-09-863-475-8	Sequence 8, Appl
	14	687.5	34.9	405	22	US-09-863-475A-8	Sequence 8, Appl
	15	685	34.8	362	10	US-08-657-215A-2	Sequence 2, Appl
	16	675.5	34.3	432	21	US-09-733-524-7	Sequence 7, Appl
	17	674	34.2	365	27	US-60-243-468-887	Sequence 887, App
	18	673.5	34.2	405	16	US-09-228-966-4	Sequence 4, Appl
	19	667	33.9	361	12	US-08-823-489-2	Sequence 2, Appl
	20	667	33.9	361	22	US-09-863-475-2	Sequence 2, Appl
	21	667	33.9	361	22	US-08-823-489-11	Sequence 11, Appl
	22	667	33.9	374	12	US-08-823-489-11	Sequence 11, Appl
	23	667	33.9	374	22	US-09-863-475-11	Sequence 11, Appl
	24	667	33.9	374	22	US-09-863-475A-11	Sequence 11, Appl
	25	662.5	33.6	359	1	PCT-US01-14827-8395	Sequence 8395, Ap
	26	662.5	33.6	359	1	PCT-US01-14827-8406	Sequence 8406, Ap
	27	662.5	33.6	359	1	PCT-US01-14827-8417	Sequence 8417, Ap
	28	662.5	33.6	359	12	US-08-823-489-14	Sequence 14, Appl
	29	662.5	33.6	359	22	US-09-863-475-14	Sequence 14, Appl
	30	662.5	33.6	359	25	US-09-863-475A-14	Sequence 14, Appl
	31	662.5	33.6	359	25	US-10-120-319-10	Sequence 10, Appl
	32	662.5	33.6	359	25	US-10-189-977-10	Sequence 10, Appl
	33	659	33.5	358	21	US-09-733-524-6	Sequence 6, Appl
	34	653	33.1	308	6	US-08-268-505-4	Sequence 4, Appl
	35	653	33.1	308	8	US-08-442-962-4	Sequence 4, Appl
	36	653	33.1	365	25	US-10-120-319-9	Sequence 9, Appl
	37	653	33.1	365	25	US-10-189-977-9	Sequence 9, Appl
	38	643	32.6	361	1	PCT-US99-20354-5	Sequence 5, Appl
	39	637	32.3	365	1	PCT-US99-20354-6	Sequence 6, Appl
	40	636	32.3	292	25	US-09-844-948-4	Sequence 4, Appl
	41	636	32.3	292	25	US-10-184-648-22	Sequence 22, Appl
	42	619	31.4	306	6	US-08-268-505-3	Sequence 3, Appl
	43	619	31.4	306	8	US-08-442-962-3	Sequence 3, Appl
	44	619	31.4	342	6	US-08-268-505-2	Sequence 2, Appl
	45	619	31.4	342	7	US-08-361-306A-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1

US-09-744-748-2

; Sequence 2, Application US/09744748

; GENERAL INFORMATION:

; APPLICANT: KYOMA HAKKO KOGYO CO., LTD.

; TITLE OF INVENTION: NOVEL PEPTIDE

; FILE REFERENCE: H10-0981N2

; CURRENT APPLICATION NUMBER: US/09/744,748

; CURRENT FILING DATE: 2001-01-29

; PRIOR APPLICATION NUMBER: JPO@98/213823

; PRIOR FILING DATE: 1998-07-29

; NUMBER OF SEQ ID NOS: 34

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2

; LENGTH: 359

; TYPE: PRT

; ORGANISM: human

US-09-744-748-2

Query Match 100.0%; Score 1970; DB 21; Length 359;
Best Local Similarity 100.0%; Pred. No. 2.4e-185;
Matches 359; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MSTSGLRPLFLVCIILGCFMACLLIYKPTNSIFSPMSASSVLMKKNFFSKTDY	60
DB	1	MSTSGLRPLFLVCIILGCFMACLLIYKPTNSIFSPMSASSVLMKKNFFSKTDY	60
QY	61	FNETILVWVFGQTFDLTSCQAMFNIOGCHLTDRSLYNKSHAVLIHHRDISMDLTNL	120

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Db 61 FNETTILVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 120
QY 121 POQARPPFOKWIMNLESPTHTPOKSGIEHLFNLTLTYRSDIOQVPGFLVSTNPFV 180
Db 121 POQARPPFOKWIMNLESPTHTPOKSGIEHLFNLTLTYRSDIOQVPGFLVSTNPFV 180
QY 181 EYPSKEKLVCMVSNMNEHARVKNYNELSKSIEHTYGAEGEYVNDKNIPTISACK 240
Db 181 EYPSKEKLVCMVSNMNEHARVKNYNELSKSIEHTYGAEGEYVNDKNIPTISACK 240
QY 241 YLSEFNSIHQDYITEKLYNAFLAGSVPVVLGPRENENYIPADSPFIHEDYNSPELAK 300
Db 241 YLSEFNSIHQDYITEKLYNAFLAGSVPVVLGPRENENYIPADSPFIHEDYNSPELAK 300
QY 301 YLKEVDKNNKLYLSTYFNMRKDFVNLPRFESHACIACDHVKRHOEYKSGVNLKFWFN 359
Db 301 YLKEVDKNNKLYLSTYFNMRKDFVNLPRFESHACIACDHVKRHOEYKSGVNLKFWFN 359
```

RESULT 2

```
US-09-744-748-1
; Sequence 1, Application US/09744748
; GENERAL INFORMATION:
; APPLICANT: KYOMA HAKKO KOGYO CO., LTD.
; TITLE OF INVENTION: NOVEL PEPTIDE
; FILE REFERENCE: H10-0981N2
; CURRENT APPLICATION NUMBER: US/09/744,748
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: JPO698/213823
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Mouse
US-09-744-748-1
```

```
Query Match 99.5%; Score 1961; DB 21; Length 359;
Best Local Similarity 99.2%; Pred. No. 1.8e-184;
Matches 356; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTSTSKGILRPFLIYCIILGCFMACLLIYIKPTNSWIFSPESASSVILKKNPFSTTDY 60
Db 1 MTSTSKGILRPFLIYCIILGCFMACLLIYIKPTNSWIFSPESASSVILKKNPFSTTDY 60
QY 61 FNETTILVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 120
Db 61 FNETTILVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 120
QY 121 POQARPPFOKWIMNLESPTHTPOKSGIEHLFNLTLTYRSDIOQVPGFLVSTNPFV 180
Db 121 POQARPPFOKWIMNLESPTHTPOKSGIEHLFNLTLTYRSDIOQVPGFLVSTNPFV 180
QY 181 EYPSKEKLVCMVSNMNEHARVKNYNELSKSIEHTYGAEGEYVNDKNIPTISACK 240
Db 181 EYPSKEKLVCMVSNMNEHARVKNYNELSKSIEHTYGAEGEYVNDKNIPTISACK 240
QY 241 YLSEFNSIHQDYITEKLYNAFLAGSVPVVLGPRENENYIPADSPFIHEDYNSPELAK 300
Db 241 YLSEFNSIHQDYITEKLYNAFLAGSVPVVLGPRENENYIPADSPFIHEDYNSPELAK 300
QY 301 YLKEVDKNNKLYLSTYFNMRKDFVNLPRFESHACIACDHVKRHOEYKSGVNLKFWFN 359
Db 301 YLKEVDKNNKLYLSTYFNMRKDFVNLPRFESHACIACDHVKRHOEYKSGVNLKFWFN 359
```

RESULT 3
PCT-US99-20354-7
Sequence 7, Application PC/TUS9920354
GENERAL INFORMATION:
APPLICANT: Cummings, Richard D.
APPLICANT: Nyame, Anthony Kwame

```
APPLICANT: DeRose-Boyd, Russell
; TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES ENCODING
; TITLE OF INVENTION: FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMALS
; FILE REFERENCE: 617313-6
; CURRENT APPLICATION NUMBER: PCT/US99/20354
; PRIOR FILING DATE: 1999-09-03
; EARLIER APPLICATION NUMBER: 60/098,922
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 7
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
; FEATURE:
; OTHER INFORMATION: CFT-1
PCT-US99-20354-7
```

```
Query Match 40.2%; Score 792; DB 1; Length 356;
Best Local Similarity 50.3%; Pred. No. 7e-69;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

QY 63 ETTILVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 121
Db 56 ETVTLVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 115
QY 122 Q-QARPPFOKWIMNLESPTHTPOKSGIEHLFNLTLTYRSDIOQVPGFLVSTNPFV 179
Db 116 RGPPRPPRORWYWMNFESPSHSGIAGLGNMTMSRROSDVFPVPGYLYEPPSPRP 175
QY 180 EYPSKEKLVCMVSNMNEHARVKNYNELSKSIEHTYGAEGEYVNDKNIPTISACK 239
Db 176 FVLPKRSKLVAMVSNMNEHARVKNYNELSKSIEHTYGAEGEYVNDKNIPTISACK 234
QY 240 YLSEFNSIHQDYITEKLYNAFLAGSVPVVLGPRENENYIPADSPFIHEDYNSPEL 298
Db 235 EYLAFFNSOHTDYITEKLYNAFLAGSVPVVLGPRENENYIPADSPFIHEDYNSPEL 294
QY 299 AKYLKEVDKNNKLYLSTYFNMRKDFVNLPRFESHACIACDHVKRHOEYKSGVNLKFWFN 357
Db 295 AYTLKFLDKNNKSYRXYFAMRNKYEYHVSFWDEHYCKCEAVFRAGNQLTVQNLGWF 354
```

```
RESULT 4
US-10-120-319-12
; Sequence 12, Application US/10120319
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent In Ver. 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-120-319-12
```

```
Query Match 40.2%; Score 792; DB 25; Length 356;
Best Local Similarity 50.3%; Pred. No. 7e-69;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

QY 63 ETTILVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 121
Db 56 ETVTLVWVPFGQTFDLTSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDISMDLTNL 115
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OY      122 Q--QARPEFOKVMWNLSPTTPPKSGIEHLEFNTLTVRRSDIQVPGFTLVSTNPV 179
Db      116 RGPPRPAPRQRKMWNMNFSSPSHSPLRLAGLFNWTMSYTRDSDVFVPGYLVEPPSPRP 175
OY      180 FEVPSEKELVCWVYSNMNBEHARVKYNELSKSIRIHTYGAQFGEVYVDKNLIPIISACK 239
Db      176 FVLPRKSRLVAMVISNNMEEHARVRYHQLEKHLPIIDYVG-ARGMALLEGSVAKTVSAVK 234
OY      240 FYLSSENSIHNDYTTEKLY-NAFLAGSYPVYLGPREVENTIPADSFTHVEDYNSPSEL 298
Db      235 FYLAENSQHNDYTTEKLMKNAFAASAVPYVIGPRANAYERIPADSFTHVDFFSPRL 294
OY      299 AKYLEVDKNNKLXYLSYFNMRKDFVTNLPRWESHACIACDHVK-RHOEYKSVGNIKEWF 357
Db      295 ATYLKFLDKNRPSTRRYRAMRKRYEVHTSFWDHEYCKVCEAVRTAQNOLKTIVNLAGWF 354

RESULT 5
US-10-189-977-12
; Sequence 12, Application US/10189977
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/189,977
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: US/09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-189-977-12

Query Match          40.2%; Score 792; DB 25; Length 356;
Best Local Similarity 50.3%; Pred. No. 7e-69;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5.

OY      63 ETTILVWPYPGQFPDLTSCQAFNIQCGLITDRSLYNKSHAVLIHHRDIS-WDLTNLP 121
Db      56 EYTVILMWEPGRGRPRPADCCRRIYITTCCLISADRGKGAEAAVYLFNRDLALHGRCGLP 115
OY      122 Q--QARPEFOKVMWNLSPTTPPKSGIEHLEFNTLTVRRSDIQVPGFTLVSTNPV 179
Db      116 RGPPRPAPRQRKMWNMNFSSPSHSPLRLAGLFNWTMSYTRDSDVFVPGYLVEPPSPRP 175
OY      180 FEVPSEKELVCWVYSNMNBEHARVKYNELSKSIRIHTYGAQFGEVYVDKNLIPIISACK 239
Db      176 FVLPRKSRLVAMVISNNMEEHARVRYHQLEKHLPIIDYVG-ARGMALLEGSVAKTVSAVK 234
OY      240 FYLSSENSIHNDYTTEKLY-NAFLAGSYPVYLGPREVENTIPADSFTHVEDYNSPSEL 298
Db      235 FYLAENSQHNDYTTEKLMKNAFAASAVPYVIGPRANAYERIPADSFTHVDFFSPRL 294
OY      299 AKYLEVDKNNKLXYLSYFNMRKDFVTNLPRWESHACIACDHVK-RHOEYKSVGNIKEWF 357
Db      295 ATYLKFLDKNRPSTRRYRAMRKRYEVHTSFWDHEYCKVCEAVRTAQNOLKTIVNLAGWF 354

RESULT 6
US-09-733-524-8
; Sequence 8, Application US/09733524
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3

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; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Gallus gallus
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Cfluct1
US-09-733-524-8

Query Match          39.1%: Score 769.5; DB 21; Length 355;
Best Local Similarity 49.5%: Pred. No. 1,2e-66;
Matches 148; Conservative 51; Mismatches 95; Indels 5; Gaps 5;

QY 63 ETTILVWVPFGQTFDLTSCQAMFNIQCGLITTDRLYLNKSHAHLIHRDIS-WDLTNLP 121
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DB 56 ETVTLVWVPFGPRPADRCRRRYNITGCLLSADRGYCARAVLFLPHRDLLHGRGLP 115
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

QY 122 Q-QARPPPKWIMNLESTHTPQKSGIELHFLNLTITRRDSIQVPPYGLTVSTNPFV 100
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DB 116 RQPPRRPRQRWMMNESHSPGLRGGLGLFMTWMSYRDSQVFPVYGLYPPSPRP 175
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

QY 181 EYPSKEKLCWVYVSNPNPEHARVKKYNELSKSIEIHTYGOAFGEYVNDKMLIPTISACK 240
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DB 176 VLPKRSRLVAMVISNNNEHARVRYRQLKEHLPIQVYG-AROMALLGGSVATVSAYKF 234
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

QY 241 YLSFENSHKDYITTEKLY-NAFLAGSVPPVYLGPSRENTENYIPADSTIHVEDYNSPELA 299
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DB 235 YLAFYNSQHTDYITTKLKNNAFASAVPVVLGPRRANYTEFIPADSPFIHVDDEPSPRLA 294
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

QY 300 KYLKEVDKNNKLYLSFNNRKDFTVNLPRFWSHACLADHYK-RHOEYKSGNLEKMF 357
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DB 295 TYLKLFLDKKKPRRYRRPARRNKKYHVAHYTSPMDHHYCKCEAVATGAGNQLKTQNLACWF 353
   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

RESULT 7
US-10-120-319-11
; Sequence 11, Application US/10120319
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-120-319-11

Query Match          35.7%: Score 703; DB 25; Length 433;
Best Local Similarity 42.4%: Pred. No. 5.8e-60;
Matches 145; Conservative 49; Mismatches 96; Indels 52; Gaps 8;
66 ILVWVPF---GQTFDLTSCQAMFNIQCGLITTDRLSLYKNSHAHLIHRDISWDLTNLP 121

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Db      92  VILWMEPFRRGRCYPKSPDCCSLRNISGCRILTDRAAGCAVLFHHRDLVKELHWP 151
      122  QO-----ARPPQKWMNLESPTHTPQKSG 147
Db      152  PPMGARETDKALVLRFPDDEGAVTLTGKALETVGSRPPGQRMWMMNFESSHTPTGLG 211
      148  I-EHLENTLTYRRDSDIQVPGFLTSTNPFEVPS-----KEKLYCWMVSNMNP 198
      212  LAKDLFENMLSYRTDSVDVPGFELTSSDP--TEQPSGLGPOLARRKGLVAMVSNMNE 269
      199  EHAARVYKYNELSKSIEIHTYGOAF-GEYVNDKNLPTISACKFYLSEFNSIHKDYTEKL 257
      270  HOARVRYHQLSRHVSVDVFGRTGPRPVALGLHTVARFKFYLAFFENSRHVDYTEKL 329
      258  Y-NAFLAGSVPVYLGSRRENYEYIPADSFIVHEDYNPSSELAKEYLKEVDKNKLXYLSE 316
      330  WRNAFLAGAVPVYLGPDGRANVERFVPRGAFIHVDDEPNASLAVILFLDRNVAAYRRYF 389
      317  NMRKDETVLPRPWFESHACLADHYKRH-QEYKSVGNLEKRF 357
      390  RMRRSFVAVHITSFWDQWCRCTQCAVOTSGDQPKSIHNLADMF 431

```

RESULT 8

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US-10-189-977-11
: Sequence 11 Application US/10189977
: GENERAL INFORMATION:
: APPLICANT: Taylor, Diane E.
: TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
: FILE REFERENCE: 07254/049001
: CURRENT APPLICATION NUMBER: US/10/189,977
: PRIOR FILING DATE: 2002-07-03
: PRIOR APPLICATION NUMBER: US/09/092,315
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: US 60/048,857
: NUMBER OF SEQ ID NOS: 22
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 11
: LENGTH: 433
: TYPE: PRT
: ORGANISM: Mus musculus
US-10-189-977-11

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Query Match

```

Best Local Similarity 42.4%; Score 703; DB 25; Length 433;
Matches 145; Conservative 49; Mismatches 96; Indels 52; Gaps 8;

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      66  ILVWVWPF-----GQFDLTSCQAFNIQCHLTDRSLYKSHAVLIHHRDISMDLTNLP 121
      92  VILWMEPFRRGRCYPKSPDCCSLRNISGCRILTDRAAGCAVLFHHRDLVKELHWP 151
      122  QO-----ARPPQKWMNLESPTHTPQKSG 147
      152  PPMGARETDKALVLRFPDDEGAVTLTGKALETVGSRPPGQRMWMMNFESSHTPTGLG 211
      148  I-EHLENTLTYRRDSDIQVPGFLTSTNPFEVPS-----KEKLYCWMVSNMNP 198
      212  LAKDLFENMLSYRTDSVDVPGFELTSSDP--TEQPSGLGPOLARRKGLVAMVSNMNE 269
      199  EHAARVYKYNELSKSIEIHTYGOAF-GEYVNDKNLPTISACKFYLSEFNSIHKDYTEKL 257
      270  HOARVRYHQLSRHVSVDVFGRTGPRPVALGLHTVARFKFYLAFFENSRHVDYTEKL 329
      258  Y-NAFLAGSVPVYLGSRRENYEYIPADSFIVHEDYNPSSELAKEYLKEVDKNKLXYLSE 316
      330  WRNAFLAGAVPVYLGPDGRANVERFVPRGAFIHVDDEPNASLAVILFLDRNVAAYRRYF 389
      317  NMRKDETVLPRPWFESHACLADHYKRH-QEYKSVGNLEKRF 357
      390  RMRRSFVAVHITSFWDQWCRCTQCAVOTSGDQPKSIHNLADMF 431

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RESULT 9

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US-08-386-716-8
: Sequence 8 Application US/08386716
: GENERAL INFORMATION:
: APPLICANT: Matzele, Gabriele
: APPLICANT: Berger, Eric G.
: APPLICANT: Matzele, Manfred
: TITLE OF INVENTION: Improved Process for the Production of
: NUMBER OF SEQUENCES: 8
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: New York
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/386,716
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/193,987
: FILING DATE:
: APPLICATION NUMBER: US/07/891,525
: FILING DATE: 29-MAY-1992
: APPLICATION NUMBER: DE 91810414.2
: FILING DATE: 31-MAY-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: DE 92810167.4
: FILING DATE: 04-MAR-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: GB 9208211.4
: FILING DATE: 14-APR-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Foley, Shawn P.
: REGISTRATION NUMBER: 33,071
: REFERENCE/DOCKET NUMBER: 4-18658/A/BEG
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (919)541-8614
: TELEFAX: (919)541-8689
: INFORMATION FOR SEQ ID NO: 8:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 405 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-386-716-8

```

Query Match

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Best Local Similarity 35.0%; Score 689.5; DB 7; Length 405;
Matches 153; Conservative 60; Mismatches 109; Indels 75; Gaps 14;

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      15  VCIILGCFMAC--LLTYI-----KPTNSWTFSPWESSSVTKAKKNFSTSTDTVDNFNETIIV 68
      28  VCVIILAGLCTLTLITYACMGQLPPLPMA-SPPS-----RPVGVLL 68
      69  WVPFEGQTDL-----TSCQAMNIOGCHLTDRSLYKSHAVLIHHRDI-----SM---- 115
      69  WVPFEGQTDL-----TSCQAMNIOGCHLTDRSLYKSHAVLIHHRDI-----SM---- 115
      69  WVPFEGQTDL-----TSCQAMNIOGCHLTDRSLYKSHAVLIHHRDI-----SM---- 115
      116  -----DLTNLPQO-----ARPPQKWMNLESPTHTP--QKSGIEHL 151
      129  GIOAHTAEVDLRLVDYEBAAAAAEALATSSPRPPGQRMWMMNFESSHTPTGLSLASNL 188

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OY 259 NAFVLAGVYVILGSPREYENTIPADSFIVHEDYNSPELAKYLEVDKNNKLYSYENM 318
Db 251 NALLAGVAVYVILGSPREYENTIPADSFIVHEDYNSPELAKYLEVDKNNKLYSYENM 310
OY 319 RKDEYVNLPRFVESHACIACDHYKHOEY-KSYGNLEKMF 357
Db 311 RSYAVHITTSFVDEPWCRCVQAVQADGRKSRINLASWF 350

RESULT 12
US-08-823-489-8
Sequence 8, Application US/08823489
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/823,489
FILING DATE: 25-MAR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavallee, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-823-489-8

Query Match
Best Local Similarity 34.9%; Score 687.5; DB 12; Length 405;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;
OY 15 VCIILGCFMAC--LIIYI---KPTNSWTFSPMESASVLMKKNFSTKTDYFNETTILV 68
Db 28 VCVLAAAGLTCALTALTYACWGQLPLPWA-SPTPS-----RPVGVLL 68
OY 69 WWPFGQTFDL-----TSCQAMFNIGCHLTDRSLYKSHAVLIHHRDI-----SW----- 115
Db 69 WWPFGQTFDL-----TSCQAMFNIGCHLTDRSLYKSHAVLIHHRDI-----SW----- 115
OY 116 -----DLTNLPQO-----ARPPQKIMIMNESFTYHP-OKSGIEHL 151
Db 129 GIOAHTAEEVDLRYLDYEAAALATSPRRPQGRWMMNESPSSHSPGKRSLASNL 188
OY 152 FNILITRYRDSIDIVYGFILVSTNPFVEYPS-----KEKLYCVVYSNNMPEHARV 203

Db 189 FFWLTSTYRADSVFEPYGYLYPRSHR--GDPSPDLAPPLSKKQGLVAMVVSMDHROARV 246
OY 204 KYINELSKSIEIHTYGOAF-GEYVNDKMLIPTISACKFYSFENSHIKDYTEKLY-NAF 261
Db 247 RYHOLSOHYVYVDFGRCGQPVPEIGLHTVARYKFTLAFFESORHDTTEKLRNAL 306
OY 262 LAGSVVYVILGSPREYENTIPADSFIVHEDYNSPELAKYLEVDKNNKLYSYENM 321
Db 307 LAGAVPVYVILGSPREYENTIPADSFIVHEDYNSPELAKYLEVDKNNKLYSYENM 366
OY 322 FTVNLPRFVESHACIACDHYKHOEY-KSYGNLEKMF 357
Db 367 YAVHITTSFVDEPWCRCVQAVQADGRKSRINLASWF 403

RESULT 13
US-09-863-475-8
Sequence 8, Application US/09863475
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/863,475
FILING DATE: 24-May-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/914,281
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lavallee, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-09-863-475-8

Query Match
Best Local Similarity 34.9%; Score 687.5; DB 22; Length 405;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;
OY 15 VCIILGCFMAC--LIIYI---KPTNSWTFSPMESASVLMKKNFSTKTDYFNETTILV 68
Db 28 VCVLAAAGLTCALTALTYACWGQLPLPWA-SPTPS-----RPVGVLL 68
OY 69 WWPFGQTFDL-----TSCQAMFNIGCHLTDRSLYKSHAVLIHHRDI-----SW----- 115

Db 69 WMBPFGGRSAPPDPDCPLRFNISCGRLLTDRASYGEAVALFHHRDLVKGPDPMPW 128
QY 116 -----DLTNLPQO-----APPQKIMWNLSEPTHP-OKSGIEHL 151
Db 129 GIOAHTAEVDLRLVLYEEAAAAAALATSSPPPCORWYWNMFESPSHSGIRSLASNL 188
QY 152 FNLITFRSDIOVYFGLTVSTNPFEVPS-----KEKLCWVVMNMPHARY 203
Db 189 FNTLSYRADSDVFPYGLYPRSH- -GDPSGLAPPLSRKGLVAVVSHMDERQARY 246
QY 204 KYNELSKSIEHTYGOAF-GEVYNDKNLPTISACKFYLSFENSJHKDYITEKLY-NAF 261
Db 247 RYHQLSQHVTVDYFGRGGQVPEIGLHTVARYKFLAFENSCHLDYITEKLMRNAL 306
QY 262 LAGSVVVLGSPRESENTIPADSETHVEDYNSPSELAKYKLVKDNKNLYLSYFNWRKD 321
Db 307 LAGAVPVVLGPDRAHYERFVPRGAFTHVDPESSASLASYLLELDNPAVYRHYFHMRRS 366
QY 322 FTVNLPFWESHACLDHYKRRQEX-KSVGNLEKMF 357
Db 367 YAVHITSFWDPCWRCVCAVQARAGDRPKSTRNLASMF 403

RESULT 14
US-09-863-475A-8
; Sequence 8, Application US/09863475A
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,475A
; FILING DATE: 24-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SPQ ID NO: 8:
US-09-863-475A-8

Query Match 34.9%; Score 687.5; DB 22; Length 405;
Best Local Similarity 38.5%; Pred. No. 1.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI-----KPTNSWIFSPMESASVLMKMFSTKDYENETIIV 68
Db 28 VCYLAAGLCTRLALITYACHGOLPLPMA-SPTPS-----RPQVILL 68
QY 69 WWPFGOTFDL-----TSCAMFNIGCHLTTRDSLYNKSHAVLIHRDI-----SW---- 115
Db 69 WMBPFGGRSAPPDPDCPLRFNISCGRLLTDRASYGEAVALFHHRDLVKGPDPMPW 128
QY 116 -----DLTNLPQO-----APPQKIMWNLSEPTHP-OKSGIEHL 151
Db 129 GIOAHTAEVDLRLVLYEEAAAAAALATSSPPPCORWYWNMFESPSHSGIRSLASNL 188
QY 152 FNLITFRSDIOVYFGLTVSTNPFEVPS-----KEKLCWVVMNMPHARY 203
Db 189 FNTLSYRADSDVFPYGLYPRSH- -GDPSGLAPPLSRKGLVAVVSHMDERQARY 246
QY 204 KYNELSKSIEHTYGOAF-GEVYNDKNLPTISACKFYLSFENSJHKDYITEKLY-NAF 261
Db 247 RYHQLSQHVTVDYFGRGGQVPEIGLHTVARYKFLAFENSCHLDYITEKLMRNAL 306
QY 262 LAGSVVVLGSPRESENTIPADSETHVEDYNSPSELAKYKLVKDNKNLYLSYFNWRKD 321
Db 307 LAGAVPVVLGPDRAHYERFVPRGAFTHVDPESSASLASYLLELDNPAVYRHYFHMRRS 366
QY 322 FTVNLPFWESHACLDHYKRRQEX-KSVGNLEKMF 357
Db 367 YAVHITSFWDPCWRCVCAVQARAGDRPKSTRNLASMF 403

RESULT 15
US-08-657-215A-2
; Sequence 2, Application US/08657215A
; GENERAL INFORMATION:
; APPLICANT: Sullivan, Francis; Shaffer, Mary; Kriz, Ron;
; APPLICANT: Ahern, Timothy
; TITLE OF INVENTION: CHO Fucosyltransferases
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genetics Institute, Inc.
; STREET: 87 Cambridgepark Drive
; CITY: Cambridge
; STATE: MA
; COUNTRY: USA
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/657,215A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Brown, Scott A.
; REGISTRATION NUMBER: 32,724
; REFERENCE/DOCKET NUMBER: G15251
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 498-8224
; TELEFAX: (617) 876-5851
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 362 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-657-215A-2

Query Match 34.8%; Score 685; DB 10; Length 362;
Best Local Similarity 41.1%; Pred. No. 2.7e-58;
Matches 147; Conservative 66; Mismatches 125; Indels 20; Gaps 10;

Fri Nov 22 13:32:40 2002

us-09-744-748-2.rapm

Page 8

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QY 10 RPELVCIIGCFMACLLIYIKPTNSWIFSPMESASVLYKKMFESTKTDYF-NETTLV 68
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
Db 14 RPLIGLILQILFALCFSTYINSHDOPGPAPDSST---GPASTPTTPVPRPFLIL 68
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
QY 69 WVPFGOTFDLSCQAF-NIOGCHLTDRSLYNKSHAVLIHRDISMDLTN-LPOQARP 126
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
Db 69 WTPPHSPLTYPCSKMLPGTADCOMTVNRSLYPOADAVIFHREISPNRSLIPSOQRP 128
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
QY 127 PEOKIMANLESPTHTPOKSGIEHLENLTLYRRSDIOVPYGLTVSTNPFV---FEVP 183
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
Db 129 PGQRWVFSLBPSHCSRSLALDGFNLMTSYRSDSDIFTPYGLBEPWAEPPVOTOVNMS 188
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
QY 184 SKELVCMVYNNPPEHARVKKYNNELSKSIEHTYQAFGEYVNDKNLIPTISACKFYL 243
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
Db 189 AKTDLVAMAVSNMNPKSARVLYOKLOSHLHDVYGRGHMP-LSRGDMGTILARKFYLA 247
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
QY 244 FENSIRKDYITEKLY-NAFLAGVYPVVLGSPRENYEYIPADSFHVEDYNSPSELAKYL 302
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
Db 248 FENSLHPDYITEKLMKNALAMAVPVVLGSPRKNEYERFLPPDAFIHDDFESPADLAOTL 307
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
QY 303 KEVDKNNKLYLSYFNNMKDFTVNLPRFWESHA---CLADHYKRRHOEYKSYGNLEKWF 357
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :
Db 308 OKLDKDSOSYORYFRWGETLR---PRL-SMALAFQACROLOMDOROYQIVHVASWF 361
  ||| : : | : : : : : : : : : : : : : : : : : : : : : : : :

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Search completed: November 22, 2002, 13:37:25
Job time : 139.5 secs


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RESULT 2
US-09-733-524A-11
; Sequence 11, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
; TITLE OF INVENTION: PHOSPHOTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-04902 (amended)
; CURRENT APPLICATION NUMBER: US/09/733,524A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-733-524A-11

Query Match
Best Local Similarity 35.7%; Score 703; DB 5; Length 433;
Matches 145; Conservative 49; Mismatches 96; Indels 52; Gaps 8;

DB 66 ILVWVWF-----GOTFLTSCQAMFNOCGLTDRSLNKSNAVLIHHRDISWDLTNLP 121
DB 92 VILWMEPFRGRGYPKSPDCSLRFNISCORLITDRAVIGEAVALFHRDLVKEHLHWP 151
DB 122 QO-----ARPPQXWIMNLESFTPTQKSG 147
DB 152 PFWGARETRDKALVLRVFDQEGAVTLTGKALETVGSRFPQGWMMNSESHPGLRG 211
DB 148 I-EHLENTLTYRRSDIOVPYGFELTVSNPFVFPVS-----KEKLCWVVSNNP 198
DB 212 LAIDLNFMTLSYRTDSVDVYPGYFLYSRSDP--TEQPSGLGQLARKGLVAMVVSNNNE 269
DB 199 EHARVYNNELSKSIEIHTYGOAF-GEVYNDKNIAPTSACKFYSPNSHKTITTEKL 257
DB 270 HQARVRYHQLSRHSVSDVDFGRTGGRPYPAIGLHTVARYKFLAFENSHVDITTEKL 329
DB 258 Y-NAFLAGSVPVYLGRSRENYENYTPADSFTHVEDYNSPSELAKYKEDVNNKLYLSYF 316
DB 330 WNRKDTYVLPFWESHACIACDHYKRH-OEYKSYGNLEKWF 357
DB 317 NNRKDTYVLPFWESHACIACDHYKRH-OEYKSYGNLEKWF 357
DB 390 RWRKSFVAHITSFWDQWCRTQCAVOTSGDQPKSIHNLADWF 431

RESULT 3
US-09-733-524A-10
; Sequence 10, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
; TITLE OF INVENTION: PHOSPHOTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-04902 (amended)
; CURRENT APPLICATION NUMBER: US/09/733,524A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 359

; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-733-524A-10

Query Match
Best Local Similarity 33.6%; Score 662.5; DB 5; Length 359;
Matches 133; Conservative 59; Mismatches 106; Indels 13; Gaps 9;

DB 55 STKTDVFNETTLVWVPGQTFDLTSCQAMF-NIOGCHLTDRSLNKSNAVLIHHRDI 113
DB 53 STGTPAHSTIPILLMTWTFENKPIALPRCSEWPGFADCNITADKKYVQDAVYVHREV 112
DB 114 SMD-LTNLPQARPPFOKWMNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVPYGFELT 172
DB 113 MTPSAQLPRSPRRQGGWIFMSMESPSCWQLKAMQGYFLTLMSYSDSDITPTQWLE 172
DB 173 V-STNPF--VEEVPSEKRLVCVWVSNMNEHARVRYNNELSKSIEIHTYGOAFGEVYNDK 229
DB 173 PWSGQPAHPPLNLSAKTELVAWAVSNMGNPNSARVRYQSLQAHUKVDYGRSH-KPLPG 231
DB 230 NLIPTISACKFYLSFENSINHDYITTEKLY-NAFLAGSVPVYLGRSRENYENYTPADSFTH 288
DB 232 TMETLSRYTKRYLAFENSLHPDYITTEKLRNALAEWAVPVYLGRSRYNERFLPDALFH 291
DB 289 VEDYNSPSELAKYKEDVNNKLYLSYFNWRKDFTVNLPF--FWESHACIACDHYKRG 346
DB 292 VDDTQSRDLARYLQELDKDHARYLSYFRWRETLR--PRSFMALAFCKACMKLQESR 348
DB 347 YKSYGNLEKWF 357
DB 349 YQING-IAANF 358

RESULT 4
US-09-733-524A-9
; Sequence 9, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
; TITLE OF INVENTION: PHOSPHOTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; FILE REFERENCE: 07254-04902 (amended)
; CURRENT APPLICATION NUMBER: US/09/733,524A
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Bos taurus
US-09-733-524A-9

Query Match
Best Local Similarity 32.7%; Score 644; DB 5; Length 365;
Matches 140; Conservative 68; Mismatches 118; Indels 42; Gaps 12;

DB 11 PLLVCIILG-CEMACILI---YIKPTNSWI-----FPMASASVLMKMFSTKDY 60
DB 18 PGLLIOLLALCFEFSYLRMSQEKPRKPMWVSELGAPSGATGSSNHLPLR----- 68
DB 61 FNETTILVWVPGQTFDLTSCQAMF-NIOGCHLTDRSLNKSNAVLIHHRDISW-DLT 118
DB 69 -----VILWTFPQNPVALSRCESELWPGADCOLVINSSEYQAAVAVYVHREVSHRKM 123
DB 119 NLPQARPPFOKWMNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVPYGFEL-----T 172
DB 124 QLPSPRPADQWRWVMSMESPSCWQLKDLQGYFNLWSTMRSDITPTQWLEPWSOP 183

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OY 173 VSTNPFVEVSKSKLVCWVYNNPNPHARKYXNNLSKSTIEHTHGOAAGEVYNNKLI 232
      | : : : | | | | | | | : : : | : : : | : : : | : : : |
Db 184 VET---LNIISAQKRLVAVVSNMNDISIRQYIKKLKPLHODVYGR-FHTPLPHALMA 239
      | : : : | : : : | : : : | : : : | : : : | : : : | : : : |

OY 233 PTISACKRYLSPENSIRKDYITTEKLY--NAELAGSPVVLGSPRENYNTIPADSFTHVED 291
      | : | | | : | | | | : | : | : | | | : | : | | | | |
Db 240 KOLSOYKFYLAFENSLHPDYITTEKLMKNALQAMVAPVVLGSPRYNVEQFLPRAFIHHED 299
      | : : : | : : : | : : : | : : : | : : : | : : : | : : : |

OY 292 YNSSELSAKLYKEVDKNNKLYLSTFENRKQFTYNLPR--FWESHACIACDHVRHOEYKS 349
      | : : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 300 FOSPEKDIAOYLALADKDYASLYANFFRRETLIR--PRSFEMALMFCACAKYLOOEPRYGT 356
      | : : | : | : | : | : | : | : | : | : | : | : | : | : |

OY 350 VGNLEKMF 357
      | : : | |
Db 357 VPTIASMFP 364

```

```

RESULT 5
US-09-733-524A-8
: Sequence 8, Application US/09733524A
: GENERAL INFORMATION:
: APPLICANT: Taylor, Diane E.
: APPLICANT: Ge, Zhongming
: TITLE OF INVENTION: NOCLEIC ACIDS ENCODING ALPHA-1,3
: TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
: TITLE OF INVENTION: EXPRESSING THEM (amended)
: FILE REFERENCE: 07254-049002
: CURRENT APPLICATION NUMBER: US/09/733,524A
: CURRENT FILING DATE: 2000-12-07
: PRIOR APPLICATION NUMBER: US 09/092,315
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: US 60/048,857
: PRIOR FILING DATE: 1997-06-06
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 8
: LENGTH: 454
: TYPE: PR1
: ORGANISM: Helicobacter pylori
US-09-733-524A-8

```

```

Query Match          7.5%; Score 147; DB 5; Length 454;
Best Local Similarity 25.5%; Pred. No. 1,8e-06;
Matches      74; Conservative    47; Mismatches   113; Indels     56; Gaps       13.

QY      31 KPTNSWIRSPMBEASSVYLKMKNFESTKIDYF---NETTILVWVPFGGOTEDLTSCQAMFN 87
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      65 KPADIVFGNPGISAKRIILSYON--TKRIFYGENES-----ENFNLFDAIGDELD 114
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

QY      88 IOGHILTDRSLYNKSHAHLIHRDISMDLTVLPQOARPPFOKATMMNLSEPTHTPOKSG 147
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      115 FR-----DRLRMPLLYDLRLHKAESVNDITAPYKIGN----SLYTLKRSHCFK--- 161
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

QY      148 IEHLFNLLTYRKROSDIQVPGFLTSINPFEVPEPSKEKLWCWYSNNNEPHARKYYIN 207
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      162 -ENHPNLCALLINNESD-----PLKRGASFAVSANANAB-MRNAEFD 200
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

QY      208 ELKSIEIHITYGOA---FGEYVNDKNLIPTISACKFYLSFENSITHKYDTTEKLYNAFTA 263
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      201 ALN-SIEEVTGGAAVKNTLGKVKGKS--EFLSQYKFNLCEFSOGGYGVTEKIIDAAYS 257
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

QY      264 GSVPVVLPRSRNENTYTPADSFTHVEZYNGSSELAKTIKLEVDKKNNKLYL 313
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      258 HTPIPLYWG-SPSVAVADFNP-KSEVVNHDFNPDEAIDYRYLHTHPNAYL 305
        || : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

RESULT 6
US-09-733-524A-3
: Sequence 3, Application US/09733524A
: GENERAL INFORMATION:
: APPLICANT: Taylor, Diane E.
: APPLICANT: Ge, Zhongming
: TITLE OF INVENTION: NOCULEIC ACIDS ENCODING ALPHA-1,3

```

```

: TITLE OF INVENTION:  PUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
:
: TITLE OF INVENTION:  EXPRESSING THEM (amended)
:
: FILE REFERENCE:  07254-049002
:
: CURRENT APPLICATION NUMBER:  US/09/733,524A
:
: CURRENT FILING DATE:  2000-12-07
:
: PRIOR APPLICATION NUMBER:  US 09/092,315
:
: PRIOR FILING DATE:  1998-06-05
:
: PRIOR APPLICATION NUMBER:  US 60/048,857
:
: PRIOR FILING DATE:  1997-06-06
:
: NUMBER OF SEQ ID NOS:  27
:
: SOFTWARE:  FastSeq for Windows Version 4.0
:
: SEQ ID NO 3
:
: LENGTH:  440
:
: TYPE:  PRT
:
: ORGANISM:  Helicobacter pylori
:
: US-09-733-524A-3

```

Query Match	7.2%	Score 142:	DB 5:	Length 440:
Best Local Similarity	24.4%	Pred. No. 5, 2e-06:		
Matches	70:	Conservative	49:	Mismatches 118: Indels 50: Gaps 12:
OY	31	KPTNSWISPMESASSVYLKMKNFESTKDYENETILVWVMPGQTFDLTSCQAMFNIOG	90	
	1:::	1:::	1:::	1:::
Db	62	EPSDLVFSPGSIQAARKILISTQCN--TKRFVAGENEV-----PNTLFDAIGDELDEL	113	
OY	91	CHLTDRSLYNSKAAVLILHNRDISMDLTNLPQCARPPFOKWTMMNLESPTRPPOKSGIRH	150	
	11:::	11:::	11:::	11:::
Db	114	-----DRLRMPLLYLDRLHKAESVNDOTAPRKINP-----SLYLTKRSHHFK-----EK	160	
OY	151	LENLTLTTRRSDIDVPRYGFELTVSNPFEVYPSSEKELCVWYSWMNPNPHARVKKYINELS	210	
	1:::	1:::	1:::	1:::
Db	161	HPHLCAVYNDSD-----PLKRGFASFYAASNPNAB--KKNAAFYDALN	200	
OY	211	KSIIEHTFG---QAQGEVYNDKNIPIITISACKFYLSPENSIIHKYITETKLVAFLAGSV	266	
	11:::	11:::	11:::	11:::
Db	201	SIEPVVGSGGVSKNPLGKRVGKNK--EFLSYQKKFNLCEFNSGSGYGVETKEIIDAFPSHTI	257	
OY	267	PVYLGRSKRENYENTIPADSFIVHEDYVNSSELAKTIKEVDKNNKLYL	313	
	11:::	11:::	11:::	11:::
Db	258	PLYW--SPSVADKNDP--KSFVNVHDFKNDKDELDIVRYLHTHPNAYL	302	

```

01 RESULT 7
02 US-09-733-524A-1
03 ; Sequence 1: Application US/09733524A
04 ; GENERAL INFORMATION:
05 ; APPLICANT: Taylor, Diane E.
06 ; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
07 ; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
08 ; TITLE OF INVENTION: EXPRESSING THEM (amended)
09 ; FILE REFERENCE: 07254-049002
10 ; CURRENT APPLICATION NUMBER: US/09/733,524A
11 ; CURRENT FILING DATE: 2000-12-07
12 ; PRIOR APPLICATION NUMBER: US 09/092,315
13 ; PRIOR FILING DATE: 1998-06-05
14 ; PRIOR APPLICATION NUMBER: US 60/048,857
15 ; PRIOR FILING DATE: 1997-06-06
16 ; NUMBER OF SEQ ID NOS: 27
17 ; SOFTWARE: FastSeq for Windows Version 4.0
18 ; SEQ ID NO 1
19 ; LENGTH: 464
20 ; TYPE: PRT
21 ; ORGANISM: Helicobacter pylori
22 US-09-733-524A-1
23
24 Query Match 7.2%; Score 142; DB 5; Length 464;
25 Best Local Similarity 24.9%; Pred. No. 5,6e-06;
26 Matches 72; Conservative 47; Mismatches 100; Indels 70; Gaps 15;
27
28 39 SPMEASASTLKKKN-----PFS--TKTDYNETNITLWVWPFQGTFFDLTSQAMFNIGCH 92
29 :::||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
30 73 NPLGASARKLSTYQKNRKYVYTGENSEPNP-----LDDYALGFD---ELDFN----- 116

```

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OY  93  LTSTDLSLNKSHAVLIIHHRDISWPLJNLPOOARPEFOKWTMMN---LESPTTPOKSGI 148
      |||
Db  117  ---DRLUMPLXYDRHLEKABSVNDTAPAKLD-----SILYAKKPSHCIFK---- 161
OY  149  EHLNPLTITLYRSDSDIQVPGFELTVSNPVEFEVPSKEKLVCVVSNMNPENHRYKYNE 208
      |||
Db  162  EKHNLCAVNDSESD-----PLKRGFASVVASNPANP---IRNFAYDA 201
OY  209  LSKSIEIHTYG---QAFGEYVNDKULIPLITSACKYFLSFENSIRHDYITERLYNAFTLAG 264
      |||
Db  202  LN-SIEPVTGGGSRNLTGYNVAKNK---ELLSOYKFNLCFENQSGYATEKTIIDAYFESH 258
OY  265  SAVPVLCSPRENEYENYPADSFTHVVDYDYNSSPSLAKYLYKEVDKNKNLYL 313
      |||
Db  259  TITPYWG-SPSVAKDFNF-KSFYNVADHFKNEFDALDIYLYLTTHNNAYL 305

```

```

RESULT 8
US-09-733-524A-7
; Sequence 7, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1.3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; REFERENCE: 07234-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; PRIOR APPLICATION DATE: 2000-12-07
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ. ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 478
; TYPE: PRT
; ORGANISM: Helicobacter pylori
; US-09-733-524A-7

```

```
Query Match      7.2%; Score 142; DB 5; Length 478;
Best Local Similarity 24.9%; Fred. No. 5.8e-06;
Matches 72; Conservative 47; Mismatches 100; Indels 70; Gaps 15;

OY    39 SPMSASSVTKMKN-----PFS--TKIDYENETILLVMVPFGQEDTLSCQAAMFNIOGCH 92
Db     :|: |: |:: |: |:: |: |:: |: |:: |: |:: |: |:: |: |:: |: |:: |: |::
       73 NPLGSARKILSYGNARVFITGENESPENN-----LFDYAGDF-----ELDFN----- 116
OY    93 LTTDRSLTYKNSHAVLLHHHDISMDLTNLDPQCARPPFOKWIMNN---LESPTHTPOKSIGI 148
Db     ||| ---DRLTLMPIYLDRLRHAKAESVNDDTAAYKLKD-----NSTLYALRKPHCFCK---- 161
OY    149 EHLFNTLTLYRRDSLDQVYGYGLIVSTNFVEVDPSKEKLCWGVYSNMNPHEBARVKYYNE 208
Db     162 EKHPNCACAVNDESD-----PLKRGFASFVASINMAP--IRNAAFYDA 201
OY    209 LKRSIEIHRYG----QAGEYINDKNLLPTISACKFYLSFENSIIHKDYITEKYNAFLAG 264
Db     202 LN-STEPYTGGGSVANITLGYNKKNN--EFLSQYEFNICFEENTOGYGVTREKIIDAYPESH 258
OY    265 SPPVALGPSRRENYEIYADSFIIHYEDIYNSPEELAKRYLEVDKNNKITVL 313
Db     ::||: ||::||::||::||::||::||::||::||::||::||::||::||::||::
        TSPVWG-SPVAKDFNP-KSEVNVHDKNPFDEAIDYITIKYLIHTHRKNATL 305

RESULT 9
US-09-733-524A-2
; Sequence 2, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
```

```

? TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
? TITLE OF INVENTION: FUCCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
? TITLE OF INVENTION: EXPRESSING THEM (amended)
? FILE REFERENCE: 07254-048002
? CURRENT APPLICATION NUMBER: US/09/733,524A
? CURRENT FILING DATE: 2000-12-07
? PRIOR APPLICATION NUMBER: US 09/092,315
? PRIOR FILING DATE: 1998-06-05
? PRIOR APPLICATION NUMBER: US 60/048,857
? PRIOR FILING DATE: 1997-06-06
? NUMBER OF SEQ. ID NOS: 27
? SOFTWARE: PASTSEQ for Windows Version 4.0
? SEQ. ID NO 2
? LENGTH: 486
? TYPE: PPT
? ORGANISM: Helicobacter pylori
US-09-733-524A-2

```

Query Match	6.6%	Score 131	DB 5	Length 486
Best Local Similarity	23.6%	Prod No. 6,9e-07		
Matches 70	Conservative 50	Mismatches 105	Indels 70	Gaps 13
QY	31	KPTSWIFSESMESASSYLAKMN-----FES--XTDYFNETTIIWVWPPGGTFFDITLSCQA	84	
Db	65	EPSDLVPGSIGSARKILSYONAKRFFYIGENESFEN-----LFDALIGFDELDR-	116	
QY	85	MFNIOGCHTTSDSLYNKSHAVLIHRDLSMPLTNLPOGARPPFOKWMNLESPTTPQ	144	
Db	117	-----DRLAMPILYDRLHHKASVNDTSPYKLKD-----SLYAKRSHHEK	161	
QY	145	KSGIEHFNLLTTRDSDIOVPGFLYSTNPFEVDSREKLYCWVSWNNPBARVYK	204	
Db	162	-----EHNPNICAVVNNSD-----PKRGFSFVASKNPAD-KNA	197	
QY	205	YNNELSKSE-----LHTYGOAFGEVYNDKNLIPITISACKEPLTSENSIHKDYTER	256	
Db	198	FYDVVLN-STIEPYIGGSYKNTLG-----YNNKNSSELSQYKRNLCHENSOGYGYTER	250	
QY	257	LXNAFLAGSVAVVLGESERENYETPADSFTHVEYDYESPSLAKLYEKDKNNKLYL	313	
Db	251	IIDAFVSHIPIYWG-SPSVADDFNP-KSFVNCDFKPFDAIDHVKRLHHPNAYL	305	

```

RESULT 10
US-09-733-524A-6
; Sequence 6, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; INVENTOR: Guo Zhongming
; TITLE OF INVENTION: NOCTIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 425
; TYPE: PRT
; ORGANISM: Helicobacter pylori
; US-09-733-524A-6

Query Match          6.6%; Score 129.5; DB 5; Length 425;
Best Local Similarity 25.1%; Pred No. 8e-05;
Matches 73; Conservative 48; Mismatches 101; Indels 69; Gaps 16

CY      37 IFS-PMSASSAVKMKMFSTKDVE---NETTILWWWPGGQTFD-LTSOCAMENIG 90
::| | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |

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Db      71 VESNPLGAARKILSYON---TKRVFTYGENES-----PNEFLPDYAIGFDELIDEN--- 117
QY      91 CHLTDRSLYKNSHAVLHHHROISMDLTLPQOARPPQKWTMMN---LESTHTPOKS 146
Db      118 ----DRTYRMPLYAHNLKALVNDTAPYKLD-----NSLYALKRPSHFK-- 162
QY      147 GIEHLFNLTLTYRRSDIOVPYGLTVSTNPFVEVPSKEKLVCMNMNEHARVRY 206
Db      163 --ENHPNLCAYVNDESDL-----LKRGFASFYASANAP-MRNATY 200
QY      207 NELSKSIEHITYG---QAFGEYNDKNLIPITSACKFYLSFENSITHKDYITEKLYNAFL 262
Db      201 DALN-SIEFTVGGSVRYNTLGYKVGKNS--EFLSQYKFNLCFENSOGYVTEKIDAYF 257
QY      263 AASVPVYLGPSRENYENTIPADSEIHYEDYNSPSLAKYLEVDKNNKLYL 313
Db      258 SHITPIYWG-SPSVADKFNP-KSFVNVHDFNNFDEADIDYIKYLIHTHPNAYL 306

```

RESULT 11

```

US-09-733-524A-5
; Sequence 5, Application US/09733524A
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 476
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-733-524A-5

```

```

Query Match      6.5%; Score 128.5; DB 5; Length 476;
Best Local Similarity 28.0%; Pred. No. 0.00012;
Matches 51; Conservative 31; Mismatches 67; Indels 33; Gaps 8;

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QY      136 LESPTHTPOKSGIEHLFNLTLTYRRSDIOVPYGLTVSTNPFVEVPSKEKLVCMVNSN 195
Db      154 LKRPISHFK-----ENHPNLCAYVNDESDL-----LKRGFASFYASN 190
QY      196 WNEHARVRYNELSKSIEHITYG---QAFGEYNDKNLIPITSACKFYLSFENSITHK 251
Db      191 ANAP-MRNATFYDALN-SIEFTVGGSVRYNTLGYKVGKNS--EFLSQYKFNLCFENSOGYG 246
QY      252 YTEKLYNAFLAGSVPVYLGPSRENYENTIPADSEIHYEDYNSPSLAKYLEVDKNNKLYL 311
Db      247 YTEKIDAYFSHITPIYWG-SPSVADKFNP-KSFVNVHDFNNFDEADIDYIKYLIHTHPNA 304
QY      312 YL 313
Db      305 YL 306

```

RESULT 12

```

US-10-131-813A-186
; Sequence 186, Application US/10131813A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen

```

```

; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C139
; CURRENT APPLICATION NUMBER: US/10/131,813A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-813A-186

```

```

Query Match      4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.1;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

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```

QY      142 TPQKSGIEHLFNLTL---TYRRSDIOVPYGLTVSTNPFVEVPSKEKLVCMVNSN 197
Db      24 TPQASIKALRRANLRDDLYRRDETIOYK-GNGYQSPRPNSYP-RNILLTWRLHSGE 81
QY      198 PEHARVRYNELSKS-----IEIHTYGOAF---GEVYNDKNLIPITSA--CKF 240
Db      82 NRIQVLPDNOGLEAENDICRYDVEVEDISFTIIRGRCKGKEVPPRKSTNGI 141
QY      241 YLSFENSITHKDYITE---KLYNAFLAGSVPVYLGPSRENYENTIPADSEIHYEDYNSPS 296
Db      142 KITFKSD--DYFAKPGFKIYSLLEDFOPA--AASETNWES--VTSISIGSVSNPS 193
QY      297 -----ELAKYLEKVNKNKLYSTFN---WRKDF--VNLPKF 329
Db      194 VTDPILIALDLKIAEFTVEDL-LKYNPESWQDLENMYLDPYR 240

```

RESULT 13

```

US-10-131-819A-186
; Sequence 186, Application US/10131819A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura

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```

? APPLICANT: Desnoyers, Luc
? APPLICANT: Fliszaroff, Ellen
? APPLICANT: Gao, Wei-Qiang
? APPLICANT: Gerritsen, Mary E.
? APPLICANT: Goddard, Audrey
? APPLICANT: Godowski, Paul J.
? APPLICANT: Gurney, Austin L.
? APPLICANT: Sherwood, Steven
? APPLICANT: Smith, Victoria
? APPLICANT: Stewart, Timothy A.
? APPLICANT: Tatanabe, Daniel
? APPLICANT: Watanabe, Colin K
? APPLICANT: Wood, William
? APPLICANT: Zhang, Zemin
? TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
? FILE REFERENCE: P3330R1C134
? CURRENT FILING DATE: 2002-04-24
? PRIOR APPLICATION NUMBER: 60/049911
? PRIOR FILING DATE: 1997-06-18
? PRIOR APPLICATION NUMBER: 60/056974
? PRIOR FILING DATE: 1997-08-26
? PRIOR APPLICATION NUMBER: 60/059113
? PRIOR FILING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059115
? PRIOR FILING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059117
? PRIOR FILING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059122
? PRIOR FILING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059164
? PRIOR FILING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059263
? PRIOR FILING DATE: 1997-09-18
? PRIOR APPLICATION NUMBER: 60/059352
? PRIOR FILING DATE: 1997-09-19
? PRIOR APPLICATION NUMBER: 60/059588
? PRIOR FILING DATE: 1997-09-19
? Remaining Prior Application data removed - See File Wrapper or PALM.
? NUMBER OF SEQ ID NOS: 550
? SEQ ID NO 186
? LENGTH: 364
? TYPE: PRT
? ORGANISM: Homo Sapien
US-10-131-819A-186

Query Match 4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.1;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14.

QY 142 TPQKSGIEHLNLT--TYRSDIQVPYGLFVSTNPFVEYFSKRLQWYVSNMN 197
DB 24 TPQSAISIKALRNRLRRDLRYRDELTIOYK-GNGYQSPRFNSYP-RMLTLRLHSGE 81
QY 198 PEHARKYNYNELSKS-----IEIHTYGOAF---GEYVDKNLIPRTSA--CRF 240
DB 82 NRIQLVFNQGLGEAENDICRYPDEVEDISETIIRGWCWGCKEVPPIKSRITQI 141
QY 241 YISFENSIRKDYITE---KLYNAPLAGSVPVVLGSPRENYENYIPADSFIVEEYNSPS 296
DB 142 KITEFSD--DYFAKPGFKITYSLLEDFOPA--AASETWNES--YVISISGVSNSPS 193
QY 297 -----ELAKYKEVDKNKLYISFN--WRKDFP---VNLPRF 329
DB 194 YTDPLIADALDKRIAEFDYVEDL-LKYNFNESSQEDLENMVLDPYX 240

RESULT 14
US-10-131-823A-186
? Sequence 186, Application US/10131823A
? GENERAL INFORMATION:
? APPLICANT: Baker, Kevin P.

```

```

/ APPLICANT: Beresini, Maureen
/ APPLICANT: DeForge, Laura
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Sherwood, Steven
/ APPLICANT: Smith, Victoria
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumias, Daniel
/ APPLICANT: Watanabe, Colin K
/ APPLICANT: Wood, William
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE OF INVENTION: ACIDS ENCODING THE SAME
/ FILE REFERENCE: P330R1C143
/ CURRENT FILING DATE: 2002-04-24
/ PRIOR APPLICATION NUMBER: US/10/131,823A
/ PRIOR FILING DATE: 1997-06-18
/ PRIOR APPLICATION NUMBER: 60/049911
/ PRIOR FILING DATE: 1997-08-26
/ PRIOR APPLICATION NUMBER: 60/056974
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059113
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059115
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059117
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059122
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059184
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059263
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/059352
/ PRIOR FILING DATE: 1997-09-19
/ PRIOR APPLICATION NUMBER: 60/059588
/ PRIOR FILING DATE: 1997-09-19
/ Remaining Prior Application data removed - See file Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 550
/ SEQ ID NO 186
/ LENGTH: 364
/ TYPE: PRT
/ ORGANISM: Homo Sapien
US-10-131-823A-186

Query Match 4.9% Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.1;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14.

OY 142 TPQSGIHLFNLTL-----TYRSDSDICVPYGFLLYSTNPFEVEYPSKRIKICWYVSMN 197
Db 24 TPQSSIKRLKRNANIRDDLYRRDEITQYK-GNGYVSPRFPNSYR-RNLLLTWLTNHSQE 81
OY 198 PEHARVKNYNEISKS-----IEHTYGAQF-----GEYVNDKMLIPTISA--CKF 240
Db 82 NTRIDLVNDQFGLLEAENDICRYDFVEVEDISESTIRRGWCHGKEMPRIKSRITQOI 141
OY 241 YLSFENSIRKDYITE-----KLYNAPLASVPYVLSPRSRENEYTPADSFHVEDEYNSP 296
Db 142 KITEKSD--DYFAVKPGFKIYSLILEFOFA--AASETNMES--VYSSISGVSYNSPS 193
OY 297 -----ELAKYLLKEVDKNNKKLYLSYFN--WRKDEP---VNLPRF 329
Db 194 VTDFPLIADALDKRIAEFDVDEL-LKYEFDSEWQEDLENNYLDLPFY 240

RESULT 15
US-10-131-824A-186
Sequence 186, Application US/10131824A

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Job time : 10 secs

```
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Beresini, Maureen
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Filvarioff, Ellen
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Sherwood, Steven
/ APPLICANT: Smith, Victoria
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K
/ APPLICANT: Wood, William
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P3330R1C126
/ CURRENT APPLICATION NUMBER: US/10/131,824A
/ PRIOR FILING DATE: 2002-04-24
/ PRIOR APPLICATION NUMBER: 60/049911
/ PRIOR FILING DATE: 1997-06-18
/ PRIOR APPLICATION NUMBER: 60/056974
/ PRIOR FILING DATE: 1997-08-26
/ PRIOR APPLICATION NUMBER: 60/059113
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059115
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059117
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059122
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059184
/ PRIOR FILING DATE: 1997-09-17
/ PRIOR APPLICATION NUMBER: 60/059263
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/059352
/ PRIOR FILING DATE: 1997-09-19
/ PRIOR APPLICATION NUMBER: 60/059588
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 550
/ SEQ ID NO 186
/ LENGTH: 364
/ TYPE: PRT
/ ORGANISM: Homo Sapien
US-10-131-824A-186

Query Match      4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.1;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

OY 142 TPQKSGIEHLFNLTL---TYRRSDIOVPYGLFVSTNPEFVEYSPKELVCWVSNMN 197
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
DB 24 TPQSSASIKALRNANLRDDLYRREDTIOYK-GNGYVQSPRPNSYP-RNLLLTWRHSD 81
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
OY 198 PEHARVKYNNELSKS-----IEIHTYGAFA---GEYVNDKNLIPTISA--CKF 240
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
DB 82 NTRIQLVFNGCGLEAENDICRYDFVEVEDISESTIRGRCWCGHKEVPRIKSRITNOI 141
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
OY 241 YLSFENSIHKQITTE----KLYNAFLAGSVPVYLPGRKRENTENYTPADSFIVHEDYNSPS 296
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
DB 142 KITFKSD--DYFAKPGFKIYISLEDFQPA--AASETNWS--VTSISIGSVSYNSPS 193
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
OY 297 -----ELAKYLKEVDKNNKLYLSEFN--WRKDF--VNLPRF 329
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
DB 194 VTDPFLIADALDKIAEFDYVEDL-LKTFNPESSQEDLENMTLDTPRY 240
    ||| :|:| | | | | | | | | | | | | | | | | | | | | | | | | |
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Search completed: November 22, 2002, 13:37:50

Thu Nov 21 11:41:18 2002

GenCore version 5.1.3
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OM protein - protein search, using sw model
November 20, 2002, 16:00:48 : Search time 12.5 seconds
(without alignments)
845.026 Million cell updates/sec

Title: US-09-744-748-1
Sequence: 1 MTSTKGLPFLVCIILG.....HKRHOEKSQVGNLEKMFVN 359

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574
Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCOTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	791	40.2	356	4	US-09-092-315-12
2	791	40.2	393	4	US-09-390-131-8
3	706	35.8	433	4	US-09-092-315-11
4	691.5	35.1	405	1	US-07-914-281-8
5	691.5	35.1	405	1	US-08-393-246-8
6	691.5	35.1	405	1	US-08-525-058A-8
7	691.5	35.1	405	2	US-08-696-731-8
8	691.5	35.1	405	2	US-09-042-531-8
9	677.5	34.4	405	2	US-08-483-151-4
10	670	34.0	299	5	PCT-US91-00899-6
11	670	34.0	361	1	US-07-914-281-2
12	670	34.0	361	1	US-08-393-246-2
13	670	34.0	361	1	US-08-273-411-3
14	670	34.0	361	1	US-08-525-058A-2
15	670	34.0	361	1	US-08-696-731-2
16	670	34.0	361	4	US-09-042-531-2
17	670	34.0	361	4	US-09-390-131-6
18	670	34.0	361	5	PCT-US91-00899-7
19	670	34.0	374	1	US-07-914-281-11
20	670	34.0	374	1	US-08-393-246-11
21	670	34.0	374	1	US-08-525-058A-11
22	670	34.0	374	2	US-08-696-731-11
23	670	34.0	374	2	US-09-042-531-11
24	665.5	33.8	359	1	US-07-914-281-14
25	665.5	33.8	359	1	US-08-393-246-14
26	665.5	33.8	359	1	US-08-525-058A-14
27	665.5	33.8	359	2	US-08-696-731-14

28	665.5	33.8	359	4	US-09-042-531-14	Sequence 14, Appl
29	665.5	33.8	359	4	US-09-092-315-10	Sequence 10, Appl
30	657	33.4	365	4	US-09-092-315-9	Sequence 9, Appl
31	657	33.4	365	4	US-09-390-131-7	Sequence 7, Appl
32	651.5	33.1	357	5	PCT-US91-00899-14	Sequence 2, Appl
33	582	29.5	342	2	US-08-483-151-2	Sequence 9, Appl
34	285.5	14.5	450	4	US-09-390-131-9	Sequence 3, Appl
35	285.5	14.5	451	4	US-09-092-315-3	Sequence 8, Appl
36	149	7.6	454	4	US-09-092-315-8	Sequence 13, Appl
37	145	7.4	372	4	US-09-092-315-13	Sequence 1, Appl
38	145	7.4	464	4	US-09-092-315-7	Sequence 7, Appl
39	145	7.4	478	4	US-09-092-315-3	Sequence 3, Appl
40	144	7.3	440	4	US-09-092-315-6	Sequence 6, Appl
41	133.5	6.8	425	4	US-09-092-315-2	Sequence 2, Appl
42	133	6.8	486	4	US-09-092-315-5	Sequence 5, Appl
43	103.5	5.3	1088	4	US-08-742-026-2	Sequence 2, Appl
44	103.5	5.3	1088	2	US-08-742-026-23	Sequence 23, Appl
45	103.5	5.3				

ALIGNMENTS

RESULT 1	US-09-092-315-12	Application US/09092315
Sequence 12, Application US/09092315		
Patent No. 6399337		
GENERAL INFORMATION:		
APPLICANT: TAYLOR, Diane E.		
APPLICANT: Ge, Zhongming		
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE		
FILE REFERENCE: 07254/049001		
CURRENT APPLICATION NUMBER: US/09/092,315		
CURRENT FILING DATE: 1998-06-05		
EARLIER APPLICATION NUMBER: US 60/048,857		
EARLIER FILING DATE: 1997-06-06		
NUMBER OF SEQ ID NOS: 22		
SOFTWARE: FastSeq for Windows Version 3.0		
SEQ ID NO 12		
LENGTH: 356		
TYPE: PRT		
ORGANISM: Gallus gallus		
US-09-092-315-12		
Query Match	40.2%	Score 791; DB 4; Length 356;
Best Local Similarity	50.3%	Pred. No. 5, 3e-68;
Matches 151; Conservative	49;	Mismatches 94; Indels 6; Gaps 5;
QY	63	ETTLVWVPPGQTFDLTSCAMFNIOGCHLTTRSLYKNSHVLTHHRDIS-WDLTNLP 121
DB	56	EVTYLLMEPEGRWRADCRRTYITGLISADRGIGEARVLFPHRDIALHGRGLP 115
QY	122	G-QARPEFKWMNLESPTHPPKSGIEHLENTLTTRDSDIOYPGFLVSTNPV 179
DB	116	RGPPEPRPQRWVWNEFSPSHSGLAGLFLNMTWSRSDVFPYGYLPEPSPR 175
QY	180	FVPEPSKEKLVCVWNNMPEHARVYKYNELSKSIEIHTYGOAFGEYVNDKLTITSTCK 239
DB	176	FVLPKRSRLVAVWISWNEHARVYKYNELSKSIEIHTYGOAFGEYVNDKLTITSTCK 234
QY	240	FYLSFENSHTKQVITKLY-NAFLAGSVVYVLSGRRENYNYPADSFTHVEDENSPSL 298
DB	235	FYLFENSOHIDITTEKMKNAFAASAVVYVLSGRPRNTEFFIPADSFTHVEDENSPSL 294
QY	299	AKYLEKVDNKKLYLSEFNKRKDFVNLPRFESHACIACHYK-RHOEKSQVGNLEKMF 357
DB	295	ATYLFKFLDKNKPSRYRIFANRKNYEVHVSFWDEHYCKVCEVTRFAGNOQKTVONLAGWF 354
RESULT 2	US-09-390-131-8	Application US/09390131
Sequence 8, Application US/09390131		
Patent No. 6461835		

```

; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Cummings, Richard D.
; APPLICANT: Nyame, A. Kwame
; APPLICANT: Debose-Boyd, Russell A.
; TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES
; TITLE OF INVENTION: ENCODING FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMAL
; TITLE OF INVENTION: INCORPORATING SAME
; FILE REFERENCE: 6679 US 01
; CURRENT APPLICATION NUMBER: US/09/390,131
; CURRENT FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-390-131-8

Query Match          40.2%; Score 791; DB 4; Length 393;
Best Local Similarity 50.3%; Pred. No. 6, 2e-68;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;

QY 63 ETTIIVWVPRGQTFDLTSCQAMNIOGCHLTDRSLYKSHAVLIHRRDIS-WDLTNLP 121
DB 55 EYTVLWMEPRGPRWPRPADCRRTNITGCLLSADRGRTGEARAVLPHRRDLALHGROGLP 114
QY 122 Q-QARPPQKWMNMLESPHTTPQKSGIEHLEFNLTLTYRRSDIOPVGFGLVSTNPFV 179
DB 115 RGPERRPRQKRWVWMMNFESPSPHSGGLGLAGLFNMTMSYRSDVFEVGYLVPPSPRP 174
QY 180 FEYSPKELVWVWVSNMNEHARVRYNELSKSIEIHTYGOAFGEYVNDKMLIPTISTCK 239
DB 175 FVLPKRSRLVAVVISNMNEHARVRYROLKEHLPIIDVYG-ARGMALLEGSVKTVSAVK 233
QY 240 FYLSPFNSTHKKDYTERKLY-NAFLAGSVPVVLGSPRESENTIPADSFTHVEDNSPSEL 298
DB 234 FYLAFENSGHTYITERKLMKNAFASAVPVVLGPRANERFIIPADSFTHVDPPSRL 293
QY 299 AKYLKVDKNNKLYSTYNNMRKDDTVLPRFMESHACLACDHVK-RHOEYKSVGNLEKMF 357
DB 294 ATYKRLDKNNKSYRRRYAMNKKEVHVTSPFMEHICVCEAVRTAGNQLATVONLQWPF 353

RESULT 3
US-09-092-315-11
; Sequence 11, Application US/09092315
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/09/092,315
; CURRENT FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: US 60/048,857
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-092-315-11

Query Match          35.8%; Score 706; DB 4; Length 433;
Best Local Similarity 42.7%; Pred. No. 1, 1e-59;
Matches 146; Conservative 48; Mismatches 96; Indels 52; Gaps 8;

QY 66 ILVWVWPF-----GQTFDLTSCQAMNIOGCHLTDRSLYKSHAVLIHRRDISMDLNL 121
DB 92 VLLWMEPRGGRGYPKSPDCLNFRNITSGCRLLTDRAAVLAFLHRRDLVXELHDPW 151
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QY 122 QQ-----ARPPQKWMNMLESPHTTPQKSG 147
DB 152 PRGARERTDKALVRVDEDEGAVTLTGKALBTGSRPPGQKRWVWMMNFESPSPHSG 211
QY 148 I-EHLEFNLTLTYRRSDIOPVGFGLVSTNPFEEVPS-----KELVQVWVSNMP 198
DB 212 LAADLEFNWLSRTSDVFEVGYGLYSRSDP--TEQPSGLGQAKRKGLVAVWVSNMNE 269
QY 199 EHARVRYNELSKSIEIHTYGOAF-GEYVNDKMLIPTISTCKFYLSFNSIHKDYTERK 257
DB 270 HQAKRRTYHQLSRHVSVDVFGRTGPRVPALGLHTVARKYFLAFESRHVDITTEKL 329
QY 258 Y-NAFLAGSVPVVLGSPRESENTIPADSFTHVEDNSPSELAKYKEDKNNKLYLSYF 316
DB 330 WRNAPLAGAVPVVLGPRANEREREVPRGAFIHVDPPNNAALAAYLFLDRVAVRYRYF 389
QY 317 NMRKDETVNLPRFMESHACLACDHVKRH-OEYKSVGNLEKMF 357
DB 390 RMRSRFAVHITSFMEQMCRTQAVQTSQDPKSIHNLADWF 431

RESULT 4
US-07-914-281-8
; Sequence 8, Application US/07914281
; Patent No. 5324663
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; TITLE OF INVENTION: GLYCOLITIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; CORRESPONDENCE ADDRESS: 14
; ADDRESSSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESS: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/914,281
; FILING DATE: 19920720
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248653 OPAT UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-07-914-281-8

Query Match          35.1%; Score 691.5; DB 1; Length 405;
Best Local Similarity 38.8%; Pred. No. 2, 4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIIIGCFMAC--LLIYI-----KPTNSWVSPMESASVYKKNKFNFTKTYDFNFTILV 68
DB 28 VCVIILAGLITCALITYACQWGLPPLPWA-SPPTSS-----RPVGVLL 68
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; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-525-058A-8

Query Match      35.1%; Score 691.5; DB 1: Length 405;
Best Local Similarity 38.8%; Pred. No. 2.4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIIIGCFMAC--LLIYI-----KPTNSWVSPMESASVLLKMKNFSTKDYFNFTTILY 68
DB 28 VCVLAAGLTCALITYACWGQLPLPMA-SPTPS-----RPGVYLL 68
QY 69 WMEPFGGRDSAPRPDPCLRFNISGRLTDRASGEAOAVLFHHRDLVKGPDPMPW 128
DB 69 WMEPFGGRDSAPRPDPCLRFNISGRLTDRASGEAOAVLFHHRDLVKGPDPMPW 128
QY 116 -----DLTNLPQO-----ARPPQKIMWNLESPTHTP-OKSGIEHL 151
DB 129 GIOAHTAEVDLRLDYEEAAAAEALATSSPRPQGRWMMNFSPSHSPSLASNL 188
QY 152 FNLTLYRRDSIOVPGYGLFTVSTNPFVEVPS-----KEKLCVWVSNMNEHARV 203
DB 189 FNNWTLSTRADSDVFPVGYGLYPRSHP--GDPSGLAPLSRRQGLVAVWVSHMDROARV 246
QY 204 KYNNELSKSIEIHTYGOAF-GEVYNDKNLIPITSTCKEFLSPENSIRHDIYTEKLY-NAF 261
DB 247 RYHHQLSQHTVADVFGGCGPVPPEIGLHTVARKFYLAFFENSQHLDIYTEKIMRAL 306
QY 262 LAGSVPVYLGPSRENTENTIPADSFTHVEDFNSPSELAKYKEVDKNNKLYSTYFNMRKD 321
DB 307 LAGAVPVYLGPDANREYERPRGAFTHVDPSASLASLYLFLDRNPVAVYRRYFHWRS 366
QY 322 FTVNLPFWESHACLACDHYKRRHOEY-KSYGNLEKWF 357
DB 367 YAVHITSFMDPEMCRVCOAVORAGDRPKSIRNLASWF 403

RESULT 7
US-08-696-731-8
; Sequence 8, Application US/0866731
; Patent No. 5953347
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/696,731
; FILING DATE: 14-AUG-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/393,246
; FILING DATE:
; APPLICATION NUMBER: US 08/220,433
; FILING DATE: 30-MAR-1994
; APPLICATION NUMBER: US 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Lavallaye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248955 OPAT UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-696-731-8

Query Match      35.1%; Score 691.5; DB 2: Length 405;
Best Local Similarity 38.8%; Pred. No. 2.4e-58;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIIIGCFMAC--LLIYI-----KPTNSWVSPMESASVLLKMKNFSTKDYFNFTTILY 68
DB 28 VCVLAAGLTCALITYACWGQLPLPMA-SPTPS-----RPGVYLL 68
QY 69 WMEPFGGRDSAPRPDPCLRFNISGRLTDRASGEAOAVLFHHRDLVKGPDPMPW 128
DB 69 WMEPFGGRDSAPRPDPCLRFNISGRLTDRASGEAOAVLFHHRDLVKGPDPMPW 128
QY 116 -----DLTNLPQO-----ARPPQKIMWNLESPTHTP-OKSGIEHL 151
DB 129 GIOAHTAEVDLRLDYEEAAAAEALATSSPRPQGRWMMNFSPSHSPSLASNL 188
QY 152 FNLTLYRRDSIOVPGYGLFTVSTNPFVEVPS-----KEKLCVWVSNMNEHARV 203
DB 189 FNNWTLSTRADSDVFPVGYGLYPRSHP--GDPSGLAPLSRRQGLVAVWVSHMDROARV 246
QY 204 KYNNELSKSIEIHTYGOAF-GEVYNDKNLIPITSTCKEFLSPENSIRHDIYTEKLY-NAF 261
DB 247 RYHHQLSQHTVADVFGGCGPVPPEIGLHTVARKFYLAFFENSQHLDIYTEKIMRAL 306
QY 262 LAGSVPVYLGPSRENTENTIPADSFTHVEDFNSPSELAKYKEVDKNNKLYSTYFNMRKD 321
DB 307 LAGAVPVYLGPDANREYERPRGAFTHVDPSASLASLYLFLDRNPVAVYRRYFHWRS 366
QY 322 FTVNLPFWESHACLACDHYKRRHOEY-KSYGNLEKWF 357
DB 367 YAVHITSFMDPEMCRVCOAVORAGDRPKSIRNLASWF 403

RESULT 8
US-09-042-531-8
; Sequence 8, Application US/09042531
; Patent No. 6268193
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,151
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Leach, Karen F.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/278001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-483-151-4

RESULT 9
 US-08-483-151-4
 ; Sequence 4, Application US/08483151
 ; Patent No. 5858752
 ; GENERAL INFORMATION:
 APPLICANT: Seed, Brian
 APPLICANT: Holgersson, Jan
 TITLE OF INVENTION: FUCOSYLTRANSFERASE GENES AND USES THEREOF
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE MA

[illegible]

Thu Nov 21 11:41:18 2002

us-09-744-748-1.rai

Page 6

ADDRESSEE: P C
STREET: 1755 Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: PCT/US91/00899
FILING DATE: 19910214
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye Ph.D., Jean-Paul
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-021-55 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-5940
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 299 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
FRAGMENT TYPE: C-terminal
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Blood
CELL LINE: A431
PCT-US91-00899-6

[illegible]

TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: P.C. HARRIS, SIVAK, MCCLELLAND, MAIER & NEUSTADT,
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/914,281
 FILING DATE: 19920720
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavallee, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 361 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 IS-07-914-281-2

[illegible]

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1  TITLE OF INVENTION:  GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
2  TITLE OF INVENTION:  OP CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
3  NUMBER OF SEQUENCES:  14
4  CORRESPONDENCE ADDRESS:
5  ADDRESSEE:  OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
6  ADDRESSEE:  P. C.
7  STREET:  1755 Jefferson Davis Highway, Fourth Floor
8  CITY:  Arlington
9  STATE:  Virginia
10 COUNTRY:  U.S.A.
11 ZIP:  22202
12
13 COMPUTER READABLE FORM:
14 MEDIUM TYPE:  Floppy disk
15 COMPUTER:  IBM PC compatible
16 OPERATING SYSTEM:  PC-DOS/MS-DOS
17 SOFTWARE:  Patent Invention #1.0, Version #1.25
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER:  US/08/393,246
20
21 FILING DATE:
22 CLASSIFICATION:  530
23 PRIOR APPLICATION DATA:
24 APPLICATION NUMBER:  US 08/220,433
25 FILING DATE:  30-MAR-1994
26 APPLICATION NUMBER:  US 07/914,281
27 FILING DATE:  20-JUL-1992
28 ATTORNEY/AGENT INFORMATION:
29 NAME:  Lavalleye, Jean-Paul M. P.
30 REGISTRATION NUMBER:  31,451
31 REFERENCE/DOCKET NUMBER:  2363-060-55
32 TELECOMMUNICATION INFORMATION:
33 TELEPHONE:  (703)521-4500
34 TELEFAX:  (703)486-2347
35 TELEX:  248855 OPAT UR
36 INFORMATION FOR SEQ ID NO:  2:
37 SEQUENCE CHARACTERISTICS:
38 LENGTH:  361 amino acids
39 TYPE:  amino acid
40 TOPOLOGY:  unknown
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42 MOLECULE TYPE:  protein
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[illegible]

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1 Patent No.5625124
2 GENERAL INFORMATION:
3 APPLICANT: Falk, Per
4 APPLICANT: Gordon, Jeffrey I.
5 TITLE OF INVENTION: Animal Model for Gastro-Intestinal
6 TITLE OF INVENTION: Disease
7 NUMBER OF SEQUENCES: 10
8 CORRESPONDENCE ADDRESS:
9 ADDRESSEE: Patrea L. Pabst
10 STREET: 1100 Peachtree Street, Suite 2800
11 CITY: Atlanta
12 STATE: Georgia
13 COUNTRY: USA
14 ZIP: 30309-4530
15 COMPUTER READABLE FORM:
16 MEDIUM TYPE: Floppy disk
17 COMPUTER: IBM PC compatible
18 OPERATING SYSTEM: PC-DOS/MS-DOS
19 SOFTWARE: PatentIn Release #1.0, Version #1.25
20 CURRENT APPLICATION DATA:
21 APPLICATION NUMBER: US/08/273,411
22 FILING DATE:
23 CLASSIFICATION: 435
24 ATTORNEY/AGENT INFORMATION:
25 NAME: Pabst, Patrea L.
26 REGISTRATION NUMBER: 31,284
27 REFERENCE/DOCKET NUMBER: WU106
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE: (404) 815-6508
30 TELEFAX: (404) 815-6555
31 INFORMATION FOR SEQ ID NO: 3:
32 SEQUENCE CHARACTERISTICS:
33 LENGTH: 361 amino acids
34 TYPE: amino acid
35 STRANDEDNESS: single
36 TOPOLOGY: linear
37 MOLECULE TYPE: protein
38 HYPOTHETICAL: NO
39 ANTI-SENSE: NO
40 FRAGMENT TYPE: internal
41 FEATURE:
42 NAME/KEY: misc_feature
43 LOCATION: 1..361
44 OTHER INFORMATION: /note= "GDP-L-fucose:beta-D-N-acetylglucosamine-3,4-aldp
45 PUBLICATION INFORMATION:
46 AUTHORS: Kukowska-Latallo, et al.
47 JOURNAL: Genes & Development
48 VOLUME: 4
49 PAGES: 1288-1303
50 DATE: 1990
51 RELEVANT RESIDUES IN SEQ ID NO: 3: FROM 1 TO 361
52 US-08-273-411-3

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[illegible]

Thu Nov 21 11:41:18 2002

us-09-744-748-1.ra1

Page 8

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QY 296 SELAKYLEVDKNNKLYLSEYNNRKDTVNLPR--FWESHACLADHKRHOEKKSVGNL 353
DB 300 KDLARILOELDKDHARLYLSEYNNRKDTVNLPR--FWESHACLADHKRHOEKKSVGNL 356
QY 354 EKWF 357
DB 357 AAWF 360

RESULT 14
US-08-525-058A-2
Sequence 2, Application US/08525058A
Patent No. 5770420
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,058A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lavelleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-525-058A-2

Query Match 34.0%; Score 670; DB 1; Length 361;
Best Local Similarity 43.4%; Pred. No. 2,4e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;
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DB 300 KDLARILOELDKDHARLYLSEYNNRKDTVNLPR--FWESHACLADHKRHOEKKSVGNL 356
QY 354 EKWF 357
DB 357 AAWF 360

RESULT 15
US-08-696-731-2
Sequence 2, Application US/08696731
Patent No. 5955347
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
NUMBER OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/696,731
FILING DATE: 14-AUG-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/393,246
FILING DATE:
APPLICATION NUMBER: US 08/220,433
FILING DATE: 30-MAR-1994
APPLICATION NUMBER: US 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavelleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-696-731-2

Query Match 34.0%; Score 670; DB 2; Length 361;
Best Local Similarity 43.4%; Pred. No. 2,4e-56;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;
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QY 299 AKLKEVDKNNKLYSYFNWRKDFTVNLPRFWESHACLADHVK-RHQEYKSVGNEEKWF 357
| || | || | || : || : || : || : ||
Db 295 ATYLKFELDKKKPSYRRFYFAWNRKKYEIVHTSFNDEHYCKACEAVRPAAGNOILKTVO NLGWTF 354

RESULT 2

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US-09-733-524-8
: Sequence 8, Application US/09733524
: Patent No. US20020068347A1
: GENERAL INFORMATION:
: APPLICANT: The Governors of the University of Alberta, a Canada Corporation
: APPLICANT: Taylor, Diane E.
: APPLICANT: Ge, Zhongming
: TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
: TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
: TITLE OF INVENTION: EXPRESSING THEM
: FILE REFERENCE: 07254/049002
: CURRENT APPLICATION NUMBER: US/09/733,524
: CURRENT FILING DATE: 2000-12-14
: PRIOR APPLICATION NUMBER: 09/092,315
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: 60/048,857
: PRIOR FILING DATE: 1997-06-06
: NUMBER OF SEQ. ID NOS: 20
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ. ID NO. 8
: LENGTH: 355
: TYPE: PR1
: ORGANISM: Gallus gallus
: FEATURE:
: NAME/KEY: PEPTIDE
: LOCATION: (0)...(0)
: OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Cfluct1
US-09-733-524-8

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Query Match	39.08;	Score 768.5;	DB 10;	Length 355;
Best Local Similarity	49.58;	Pred. No. 4.9e-59;		
Matches 148; Conservative	50;	Mismatches 96;	Indels 5;	Gaps 5;

QY	63	ETIILVWVPEGQETDLITSCQAMENIOGCHLTDRSLYNKSHAVLIHHRDIS-WDLTNLP	121
QY	56	EVTIVLLMMFEPGPMKPADCCRRRTNITIGCLSLSDRGYGGARVYLFHHHDLALGROGLP	115
QY	122	Q-QARPEFGKMIWMNLESPTHTPOKSGIEHLFNLTITTYRRSDIOVPGGFTLVSTNPEVF	180
Db	116	RGPPRRPRQWMMNEESPDSHSPGIRGLAGLFWMTJMSYRSDSDSVFPGXYLYEPPSPPF	175
QY	181	EVSSEKELVCWVSWMNPPEHAKVRYKYNELSKSIEIHTHYGAQGEVYNDKNILPTISTCKF	240
Db	176	VLEKRSRLAAMWISMMNEEHARVRVRYQLEKHELPIDVYG-ARMMALLBESVYKTVASAKF	234
QY	241	YLSFENSIIHKDYTEKLY-NAFLAGSVPVYLGPGRSENYEYIPADSEFIVHEDFENSPSELA	299
Db	235	YLAFYSOHTDITTYTKLWKNRFAASAVPVYLGPFRANRYERFIIPADSEFIVHDFESPRLLA	294
QY	300	KYLEKVDKNNKKYYLSYFWMRADFVYNLPREMESHACIACDHYK-RHOEYKSGVNLKEKF	357
Db	295	TYLKFLDKKKPSYRRPRPAMRNKYNHYHNTSEMDHHYKCYKEAEVARTGNOQLTQYNLAGFE	353

RESULT 3

US-10-120-319-11
Sequence 11, Application US/10120319
Patent No. US2002016479A1
GENERAL INFORMATION
APPLICANT: Taylor, Diane E.
APPLICANT: Ge, Zhongming
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07234/049001
CURRENT APPLICATION NUMBER: US/10/120,319
CURRENT FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315

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PRIORITY FILING DATE: EARLIER FILING DATE: 1998-06-05
PRIORITY APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
PRIORITY FILING DATE: EARLIER FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 11
LENGTH: 433
TYPE: PRT
ORGANISM: Mus musculus
US-10-120-319-11
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Query Match	35.88;	Score 706;	DB 9;	Length 433;
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Matches 146; Conservative 48; Mismatches 96; Indels 52; Gaps 8;

QY 66 ILVWVPF----GQTFDLTSCAMFNIGCHLTDRSLYNKSHAVLIHHRDISMDLNL P 121
 : : : | | | | | : : : : : : : : : : : :
Db 92 VLLMTEPRRGNGYKSPDPDCILRFNISGCRLTLDRAYGEAOAVLFHHRIPLYKELHDWP 151

QY 122 QQ-----ARPPQKWIMNLESPTHTPQKSG 147

Db 152 PPMGARETIDKALVLRVFDDQEGAVLTGKALETVGSRPPGQRWWMNFEESPSTPLRG 211

QY 148 I-EHLENTLT YRDS DIQVPYGF LT VSTNPVEVEVPS-----KEKLCVWVSNNWP 198

Db 212 LAKDENWTLSTYRTSDVEVPYGYLSRSDP--TEQPSGLGPQLARKRGLVAVVSNWNE 269

QY 199 EHARVKYNELSKIETHTYGQAF-GEYVNDKNLIPTISTCKEYLSFENSIIHKDYITEKL 257

Db 270 HQARVRYHQLSRHVSVDVFGRTGPRVPAIGLLHTVARRYKEYLAFENSRHVDYITEKL 329

QY 258 Y-NAFLAGSVVLGPSRENYENIPADSFIVHEDFNSPSELAKYLYKEVDKNKLYLSYF 316

Db 330 WRNAFLAGVPLGPDRAHYERFVPRGAFIHVDDEPNASLALYLLFLDRNVAVYRRYF 389

QY 317 NWRKDFVNLPRFRESHACLACDHVKRH-QEYKSVGULEKWF 357

RESULT 4
US-09-863-475A-8
; Sequence 8, Application US/09863475A
; Patent No. US20020102688A1

APPLICANT: LOWE, JOHN B.

OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEIN

OF CLONED GENETIC SEQUENCES THAT DETERMINE THE

CORRESPONDENCE ADDRESS:

P.C.

CITY: Arlington

COUNTRY: U.S.A.

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

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SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT ADDITION DATA:
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APPLICATION NUMBER: US/09/863,475A
FILING DATE: 24-APR-2009

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;
CLASSIFICATION: <Unknown>
PROVIDED ADDITIONAL DATA:

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APPLICATION NUMBER: 07/914,281
FILING DATE: 09-07-2003

ATTORNEY/AGENT INFORMATION:

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; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
;
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-863-475A-8

Query Match      35.1%; Score 691.5; DB 10; Length 405;
Best Local Similarity 38.8%; Pred. No. 2,66-52;
Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI---KPTNSWVSPMESASVLLKKKNFESTKTDYFNETTILV 68
DB 28 VCVLAAGLITCTALITYACWGLPPLPMA-SPTPS-----RPGVILL 68
QY 69 WWPFGQFFDL---TSCQAMFNIGCHLTDRSLYKNSHAVLIHHRDI-----SM---- 115
DB 69 WMEPFGGRDSAPRPDCPLRFENISGCRLLTDRASYGEAQLFHHRLDLVKGPDPWPPEW 128
QY 116 -----DITNLPQO-----ARPPQKIMWNLESPTFP-QKSGIEHL 151
DB 129 GIAQHTAEVDRLVLDYEAAAAAALATISSPRPGQRMWMMNFSPSISPLRLASNL 188
QY 152 FNLTLTYRSDSDIQVPGFLVSTNPFEVPS-----KEKLYCWVWSNMNPEHARV 203
DB 189 FMTWLSYRSDSVFVPGYGLYRSHP--GDPPSGLAPPLSKQGLVAVVSWHDERQARV 246
QY 204 KYNNELSKIETHTYGOAF-GEYVNDKNIPTISTCKFYLSFENSIHKDYITEKLY-NAF 261
DB 247 RYHOLSQHVTVDFVGRGGPQVPEIGLHTVARKFYLAENSQHLDTYIEKILMRNL 306
QY 262 LAGSPVYVIGPREVENTIPADSFIVHEDFNSPELAKYLEVDKNNKLYSTYNRKRD 321
DB 307 LAGAVVYVIGPRVAVYERVPFGAFIHVDDFPSASSLASYLLFLDRNPVAVRYRHHWRS 366
QY 322 FTVNLPRFESHACLADHVKRHOEY-KSVGNLEKWF 357
DB 367 YAVHITSEWDEPCWCAVQAVQAGDRPKSIRNLASF 403

RESULT 5
US-09-733-524-7
; Sequence 7, Application US/09733524
; Patent No. US20020068347A1
;
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; CURRENT FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 432
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:

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; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Mfuct4
US-09-733-524-7

Query Match      34.4%; Score 678.5; DB 10; Length 432;
Best Local Similarity 42.1%; Pred. No. 3,76-51;
Matches 144; Conservative 48; Mismatches 97; Indels 53; Gaps 9;

QY 66 ILVWVWP-----GQTFDLTSCQAMFNIGCHLTDRSLYKNSHAVLIHHRDISMDLTLNP 121
DB 92 VLMWEPFGRGKYPSPDCSLRFENISGCRLLTDRASYGEAQLFHHRLDLVKGELHMP 151
QY 122 QO-----ARPPQKIMWNLESPTFPQKSG 147
DB 153 PPGWABERTKALVLRVDDQGAVTLGKALETVGSRQRMWMMNFESSHTPGLRG 211
QY 148 I-EHLFNLTYRSDSDIQVPGFLVSTNPFEVPS-----KEKLYCWVWSNMNMP 198
DB 212 LAKDLFNNTLSTRSDSVFVPGYGLYRSDP--TQPSGLGPQLARKGLVAVVWSNMNE 269
QY 199 EHARKYNNELSKSIEIHTYGOAF-GEYVNDKNIPTISTCKFYLSFENSIHKDYITEKL 257
DB 270 HQARVRYHQLSRHVSVVFCRTGPRVPAIGLHTVARKFYLAFXNSRHVDYITEKL 329
QY 258 Y-NAFLAGSVPVYLPSPREVENTIPADSFIVHEDFNSPELAKYLEVDKNNKLYSLF 316
DB 330 WRNAFLAGAVPVLD--DRANTERFVPRGAFIHVDQFPNAASTLAAYLLFLDRNAVAVRYRF 388
QY 317 NMRKDFVNLPRFESHACLADHVKRH-QEYKSVGNLEKWF 357
DB 369 RMRSEFAVHITSEWDEPCWCAVQAVQAGDRPKSIRNLASF 430

RESULT 6
US-09-863-475A-2
; Sequence 2, Application US/09863475A
; Patent No. US20020102688A1
;
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
;
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESS: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,475A
; FILING DATE: 24-MAY-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELE: 248855 OPAT UR

```

```

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-863-475A-2

Query Match
Best Local Similarity 43.4%; Score 670; DB 10; Length 361;
Matches 132; Conservative 54; Mismatches 98; Indels 20; Gaps 9;

QY 66 ILVWVPGQTDFDLTSCQAMF-NIOGCHLTDRSLYKSHAVLIHRDISWDL-----TN 119
DB 65 ILMTWPFHTPAALPRCSEMVPGADCNITADSSVYQADAVIYHWDIMYNPSANLPP 120
QY 120 LPOQARPPQKWIWMNLESPTHTPOKSGIEHLEFNLTLTYRRSDIOVPGFLTV-STNPF 178
DB 121 LPPSPRPOQKRWIMENLEPPRCOHLTDYFNLTLMSYSDSDIFTPYGWLPEWMSGQPA 180
QY 179 --VFEPSPKREKLVQWVSNMNPENHARVRYKYNELSKSIEITHYGAFGYVNDKLIPTIS 236
DB 181 HPLNLSATKTELAVANAVSNMKNPDSARVRYQSLQAHKLVGYGRSH-KPLPKGTMMETLS 239
QY 237 TCFEYLFSPNSIHKDYITEKLY-NAFLAGSVYVVLGSPRENYEYIPADSFIIHEDFNRP 295
DB 240 RYKFYLAFENSLHPDYITEKLMRNALFMAVAVVLGSPRSNYERFLPPDAFIHVDQFQSP 299
QY 296 SELAKIKREVDNNKLYLSYFWMKDFVNLPR--FWESHACIACDHYKROEKSQVGNL 353
DB 300 KDLARKLQEDKHARLYSYFWMKELTLR--PRSPNALDFCRACWKLDQESRYQTVRSI 356
QY 354 EKWF 357
DB 357 AAMF 360

RESULT 7
US-09-863-475A-11
; Sequence 11, Application US/09863475A
; Patent No. US20020102688A1
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1735 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,475A
; FILING DATE: 24-May-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-863-475A-11

Query Match
Best Local Similarity 44.0%; Score 670; DB 10; Length 374;
Matches 132; Conservative 57; Mismatches 99; Indels 12; Gaps 8;

QY 66 ILVWVPGQTDFDLTSCQAMF-NIOGCHLTDRSLYKSHAVLIHRDISWD-LTNLPOQ 123
DB 78 ILMTWPFHTPAALPRCSEMVPGADCNITADSSVYQADAVIYHWDIMYNPSANLPP 137
QY 124 APPPQKWIWMNLESPTHTPOKSGIEHLEFNLTLTYRRSDIOVPGFLTV-STNPF--VF 180
DB 138 TRPOGQKRWIMFSPNSRNLHLEALDGYFNLTLMSYSDSDIFTPYGWLPEWMSGQPAHPL 197
QY 181 EVPSKREKLVQWVSNMNPENHARVRYKYNELSKSIEITHYGAFGYVNDKLIPTISCKF 240
DB 198 NLAKTELAVANAVSNMKNPDSARVRYQSLQAHKLVGYGRSH-KPLPKGTMMETLSRYKF 256
QY 241 YLSFENSISKDYITEKLY-NAFLAGSVYVVLGSPRENYEYIPADSFIIHEDFNPSSELA 299
DB 257 YLAFENSLHPDYITEKLMRNALFMAVAVVLGSPRSNYERFLPPDAFIHVDQFQSDLA 316
QY 300 KYLKEVDKNNKLYLSYFWMKDFVNLPR--FWESHACIACDHYKROEKSQVGNLEKWF 357
DB 317 RYLDKLDKHARLYSYFWMKELTLR--PRSPNALDFCRACWKLDQESRYQTVRSIAAMF 373

RESULT 8
US-10-120-319-10
; Sequence 10, Application US/10120319
; Patent No. US20020164749A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; CURRENT APPLICATION NUMBER: US/10/120,319
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-120-319-10

Query Match
Best Local Similarity 43.1%; Score 665.5; DB 9; Length 359;
Matches 134; Conservative 58; Mismatches 106; Indels 13; Gaps 9;

QY 55 STKTDYNETTILVWVPGQTDFDLTSCQAMF-NIOGCHLTDRSLYKSHAVLIHRDI 113
DB 53 STGTPAHSLPILILMTWPFNKPIALPRCSEMVPGADCNITADKRYVPQADAVIYHREY 112
QY 114 SWD-LTNLPOQARPPQKWIWMNLESPTHTPOKSGIEHLEFNLTLTYRRSDIOVPGFLT 172
DB 113 MYNSAOLPPSPRPOQKRWIMFSPNSRNLHLEALDGYFNLTLMSYSDSDIFTPYGWL 172
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QY 173 V-STNPF--VEEYPSKEKLVGVVSNWNPDEHARVKYNNLSIEHTYGAQFGEVYNDK 229
173 PMSGOPAHPLPLNSAKTELVAVAVSNWGNPSARVRYQSLQHLKADYVGRSH-KPLPG 231
QY 230 NLIPTSTCKFYLSFENSJHKDYITEKLY-NAFLAGSVVYVIGPSRENYENTIPADSFTH 288
232 TMEETLSRKFFYLAFFENSLHPDYTEKLRNMLEAVAVVYVIGPSRSNTERFLPDAFTH 291
QY 289 VEDFNSPSELAKYKLEVDKNNKLYLSYFNWKRDFVNLPR--FWESHACIACDHYKRHOE 346
292 VDDFQSPKDLARLYQELDLQDLHDHARYLSYFMRRETLR---FRSFMALAFCKACKWQLEESR 348
QY 347 YKSVGNLEKWF 357
DB 349 YOTRG-IAAMF 358

RESULT 9
US-09-863-475A-14
Sequence 14, Application US/09863475A
Patent No. US20020102688A1
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIYAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/863,475A
FILING DATE: 24-May-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 359 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-863-475A-14

Query Match 33.8%; Score 665.5; DB 10; Length 359;
Best Local Similarity 43.1%; Pred. No. 3.9e-50;
Matches 134; Conservative 58; Mismatches 106; Indels 13; Gaps 9;
QY 55 STRTDYFNETTILVWVPGQTFDLTSCQAMF-NIOGCHLTDRSLYXNSHAVLIHHRDI 113
DB 53 STOTPAHSITPLILMTWPNKRLAPRCSEMYVGTADCNITADKKYPPQADAVYVHREY 112

QY 114 SMD-LTNLPQOARPPFOKIMWNLESPTHTPOKSGIEHLFNLTYRRSDIQVPGFLT 172
113 MYNPSAQLDRSPRROGQRIWFSMESPSHCWOLKADGYNLTMSYRSDSIFTPYGMLE 172
QY 173 V-STNPF--VEEYPSKEKLVGVVSNWNPDEHARVKYNNLSIEHTYGAQFGEVYNDK 229
173 PMSGOPAHPLPLNSAKTELVAVAVSNWGNPSARVRYQSLQHLKADYVGRSH-KPLPG 231
QY 230 NLIPTSTCKFYLSFENSJHKDYITEKLY-NAFLAGSVVYVIGPSRENYENTIPADSFTH 288
232 TMEETLSRKFFYLAFFENSLHPDYTEKLRNMLEAVAVVYVIGPSRSNTERFLPDAFTH 291
QY 289 VEDFNSPSELAKYKLEVDKNNKLYLSYFNWKRDFVNLPR--FWESHACIACDHYKRHOE 346
292 VDDFQSPKDLARLYQELDLQDLHDHARYLSYFMRRETLR---FRSFMALAFCKACKWQLEESR 348
QY 347 YKSVGNLEKWF 357
DB 349 YOTRG-IAAMF 358

RESULT 10
US-09-733-524-6
Sequence 6, Application US/09733524
Patent No. US20020068347A1
GENERAL INFORMATION:
APPLICANT: The Governors of the University of Alberta, a Canada Corporation
APPLICANT: Taylor, Diane E.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
TITLE OF INVENTION: EXPRESSING THEM
FILE REFERENCE: 07254/049002
CURRENT APPLICATION NUMBER: US/09/733,524
CURRENT FILING DATE: 2000-12-14
PRIOR APPLICATION NUMBER: 09/092,315
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/048,857
PRIOR FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 20
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 358
TYPE: PRP
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (0)...(0)
OTHER INFORMATION: Helicobacter pylori fucosyltransferase - HfucT6
US-09-733-524-6

Query Match 33.6%; Score 662; DB 10; Length 358;
Best Local Similarity 43.4%; Pred. No. 7.8e-50;
Matches 135; Conservative 58; Mismatches 104; Indels 14; Gaps 10;
QY 55 STRTDYFNETTILVWVPGQTFDLTSCQAMF-NIOGCHLTDRSLYXNSHAVLIHHRDI 113
DB 53 STOTPAHSITPLILMTWPNKRLAPRCSEMYVGTADCNITADKKYPPQADAVYVHREY 112
QY 114 SMD-LTNLPQOARPPFOKIMWNLESPTHTPOKSGIEHLFNLTYRRSDIQVPGFLT 172
DB 113 MYNPSAQLDRSPRROGQRIWFSMESPSHCWOLKADGYNLTMSYRSDSIFTPYGMLE 172
QY 173 V-STNPF--VEEYPSKEKLVGVVSNWNPDEHARVKYNNLSIEHTYGAQFGEVYNDK 229
173 PMSGOPAHPLPLNSAKTELVAVAVSNWGNPSARVRYQSLQHLKADYVGRSH-KPLPG 231
QY 230 NLIPTSTCKFYLSFENSJHKDYITEKLY-NAFLAGSVVYVIGPSRENYENTIPADSFTH 288
232 TMEETLSRKFFYLAFFENSLHPDYTEKLRNMLEAVAVVYVIGPSRSNTERFLPDAFTH 291
QY 289 VEDFNSPSELAKYKLEVDKNNKLYLSYFNWKRDFVNLPR--FWESHACIACDHYKRHOE 346

Thu Nov 21 11:41:18 2002

us-09-744-748-1.rapb

Page 6

Db 292 VDDFSPKDLARYLOELDKDR-YLSTFRWRETLR---PRSFSLMALPCKACWKLOEBSR 347
QY 347 YKSVONLEKMF 357
Db 348 YOTRG-LAAME 357

RESULT 11

US-10-120-319-9
Sequence 9, Application US/10120319
Patent No. US2002016479A1
GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/10/120,319
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
PRIOR FILING DATE: EARLIER APPLICATION NUMBER: 60/048,857
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 9
LENGTH: 365
TYPE: PRP
ORGANISM: Bos taurus
US-10-120-319-9

Query Match 33.4%; Score 657; DB 9; Length 365;
Best Local Similarity 38.9%; Pred. No. 2,2e-49;

Matches 143; Conservative 66; Mismatches 117; Indels 42; Gaps 12;

QY 11 PFLVICIILG-CFMACLLI---YIKPTNSWV-----FSPMESASVYLKMKNEFSTKTDY 60
Db 18 PGLIQLLALCFFGYLIRMSQEKPKPKPMWVSELGAPSOATEGSGAHLPRL----- 68
QY 61 FNETTILVWVPFGQTFDLTSCQAMF-NIOGCHLTDRSLYKNSHAVLIHHRDISW-DLT 118
Db 69 -----VLTMTPEFNOPVALSRSCSELPGTADCOLTVNRSYEPQADAVFHHREVSHPKM 123
QY 119 NLPQARPPQKIMWNLESPTHTPOKSGIEHLNLTLYRRSDIOVYGF-----T 172
Db 124 QLPSPRPADQAWFMSSESPSNCILKLDLGGYFNLTMSYRRSDIFMPYGLWLEPWSOP 183
QY 173 VSTNPEFVEPSKEKLYCVVSNMNPENHARVYKYNELSKSIEIHTYGOAFGEYVNDKNI 232
Db 184 VET---LNTSARKTLVAVVSNMNTDSIRVOYKILKPHLDQVYGR-FHTPLPHALMA 239
QY 233 PTISCKEYLFENSIRKDYITERLY-NAFLAGSVPVVLGSPRENYENYIPADSFIVHD 291
Db 240 KOLSOKRYFLAENSILHPIYTERKLMKNALQAMAVPVVLGSPRVNYEOLFPRKAFIHD 299
QY 292 FNSPSELAKYLEVDKNNKLYSTFNMRKDFVNLPR-FWESHACLACDHYKRHOEYS 349
Db 300 FQSPKDLAQYLLALDKDYASTLNTFRWRETLR---PRSFSLMALPCKACWKLOEBSR 356
QY 350 VGNLEKMF 357
Db 357 VPSIASWF 364

RESULT 12
US-09-733-524-5
Sequence 5, Application US/09733524
Patent No. US2002008347A1
GENERAL INFORMATION:
APPLICANT: The Governors of the University of Alberta, a Canada Corporation
APPLICANT: Taylor, Diane E.
APPLICANT: Ge, Zhongming
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND

FILE OF INVENTION: EXPRESSING THEM
FILE REFERENCE: 07254/049002
CURRENT APPLICATION NUMBER: US/09/733,524
CURRENT FILING DATE: 2000-12-14
PRIOR APPLICATION NUMBER: 09/092,315
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/048,857
PRIOR FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 20
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 364
TYPE: PRP
ORGANISM: Bos taurus
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (0)...(0)
OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Bfuct3

US-09-733-524-5
Query Match 31.1%; Score 612.5; DB 10; Length 364;
Best Local Similarity 37.8%; Pred. No. 1.5e-45;
Matches 139; Conservative 63; Mismatches 123; Indels 43; Gaps 13;

QY 11 PFLVICIILG-CFMACLLI---YIKPTNSWV-----FSPMESASVYLKMKNEFSTKTDY 60
Db 18 PGLIQLLALCFFGYLIRMSQEKPKPKPMWVSELGAPSOATEGSGAHLPRL----- 68
QY 61 FNETTILVWVPFGQTFDLTSCQAMF-NIOGCHLTDRSLYKNSHAVLIHHRDISW-DLT 118
Db 69 -----VLTMTPEFNOPVALSRSCSELPGTADCOLTVNRSYEPQADAVFHHREVSHPKM 123
QY 119 NLPQARPPQKIMWNLESPTHTPOKSGIEHLNLTLYRRSDIOVYGF-----T 172
Db 124 QLPSPRPADQAWFMSSESPSNCILKLDLGGYFNLTMSYRRSDIFMPYGLWLEPWSOP 183
QY 173 VSTNPEFVEPSKEKLYCVVSNMNPENHARVYKYNELSKSIEIHTYGOAFGEYVNDKNI 232
Db 184 VET---LNTSARKTLVAVVSNMNTDSIRVOYKILKPHLDQVYGR-FHTPLPHALMA 239
QY 233 PTISCKEYLFENSIRKDYITERLY-NAFLAGSVPVVLGSPRENYENYIPADSFIVHD 291
Db 240 KOLSOKRYFLAENSILHPIYTERKLMKNALQAMAVPVVLGSPRVNYEOLFPRKAFIHD 299
QY 292 FNSPSELAKYLEVDKNNKLYSTFNMRKDFVNLPR-FWESHACLACDHYKRHOEYS 349
Db 300 FQSPKDLAQYLLALDKDYASTLNTFRWRETLR---PRSFSLMALPCKACWKLOEBSR 356
QY 350 VGNLEKMF 357
Db 356 VPSIASWF 363

RESULT 13
US-09-784-077-2
Sequence 2, Application US/09784077
Patent No. US2002011469A1
GENERAL INFORMATION:
APPLICANT: NARSUKA, SHUNJI
GERSTER, KEVIN M.
LOWE, JOHN B.
TITLE OF INVENTION: MURINE ALPHA (1,3) FUCOSYLTRANSFERASE
FUC-TIV1, DNA ENCODING THE SAME, METHOD FOR PREPARING THE
SAME, ANTIBODIES RECOGNIZING THE SAME, IMMUNOSSAYS FOR
DETECTING THE SAME, PLASMIDS CONTAINING SUCH DNA
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: OBLOH, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1735 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA


```

;
;      ZIP: 22202
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/784,077
;      FILING DATE: 16-Feb-2001
;      CLASSIFICATION: <unknown>
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: US 08/613,098
;      FILING DATE: 08-MAR-1996
;      ATTORNEY/AGENT INFORMATION:
;      NAME: LAVALLEYE, JEAN-PAUL
;      REGISTRATION NUMBER: 31,451
;      REFERENCE/DOCKET NUMBER: 2363-114-55
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: 703-413-3000
;      TELEFAX: 703-413-2220
;      INFORMATION FOR SEQ ID NO: 2:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 393 amino acids
;      TYPE: amino acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;      MOLECULE TYPE: protein
;      SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-784-077-2

Query Match
Best Local Similarity 29.5%; Score 582; DB 10; Length 393;
Matches 120; Conservative 52; Mismatches 109; Indels 24; Gaps 8;

QY 65 TIIYVWMPF-----GQFDLTSCQAMFNIOGCHLTIDRSLYNKSNAVLIHHRDISWD 116
   |||: ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 99 TIIIMWMPFNNRPPELPBDT-----C-TRYGMASCRLSANRSLASADAVFHHRELQFR 152

QY 117 LTNLPQARPPKQIMMNESPHTPOKSGIHLNLTITVYRDSDIQVPGFLVSTN 176
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 153 QSLPLDQREHGQPMWASMSPSNTHGHRFGITFNWVLSYRSDSDIEVPGYGLPPLSG 212

QY 177 PFVEEYPSKEKLVVYVNMNPEHARVKKYNNELSKSIEIHTYGAQFGEVYNDKLIPTIS 236
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 213 P-TSPLEPASMAMAWISNNGEROQAKLYRQLAPHLQVDFGRAGRPCLANCALDPTLA 271

QY 237 TCKFYVLSFENSIRKDYITTEKLY-NAFLAGSVPVYLGPSRENYENYIPADSFTHVEDFNSP 295
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 272 RYRFYLAFFESQHRDYITEKFMNMLAAGAVPALGPPRATYEAFFVPPDAFVHDDFSSA 331

QY 296 SELAKLKEVDKNNKLYLSFNMKRDPVNLPRFWESHACLAC---DHVKRHQEYKSVGN 352
   |||: ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 332 RELAVPL--VSMNESRYRGFFAWRDLRVRLGLDWMRERFCTTCARYPYLRQVYE--D 386

QY 353 LEKMF 357
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DB 387 LESMF 391

RESULT 14
US-09-731-872-284
; Sequence 284, Application US/09731872
; Patent No. US20020102604A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bouguerelet, Lydie
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNAS ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78 US3 REG
; CURRENT APPLICATION NUMBER: US/09/731,872
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08

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;      PRIOR APPLICATION NUMBER: US 60/187,470
;      PRIOR FILING DATE: 2000-03-06
;      NUMBER OF SEQ ID NOS: 482
;      SOFTWARE: Patent.pm
;      SEQ ID NO 284
;      LENGTH: 406
;      TYPE: prt
;      ORGANISM: Homo sapiens
;      FEATURE:
;      NAME/KEY: SIGNAL
;      LOCATION: -31...-1
;      US-09-731-872-284

Query Match
Best Local Similarity 13.7%; Score 270; DB 10; Length 406;
Matches 93; Conservative 56; Mismatches 112; Indels 60; Gaps 16;

QY 41 MESA---SSVLKMKNF-PSYKTDY-FNETTIIYVWMPF-GQFDLTSCQAMFNIOGCHL 93
   |||: ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 94 MEAPTHINSFLKKEGLTFNRKRWELDSYPIIMLWSPLETGETIGRGCGA---DACFF 149

QY 94 TIDRSL--YNKSHAVLIHHRDISWDLTNLPQARPPFOKIMMNESTPT-----HTPOK 145
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 150 TIRRTYLHHMTKAFLEFGTDENIDSLPIRKAN--HDMAYFHESPRNNYKLFERK-- 204

QY 146 SGTEHLFNLITVYRDSDIQVPGFL---TVSTNPFVEVPSKEKL-----VCWVGSN 195
   |||: ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 205 --VITLFNTATFSRSHSLPTTQYLESIEVLKSLRYLVPLQSKNKLRRRLAPLYVQST 262

QY 196 WNEPHARVYVYNNELSKSIEIHTYGAQFGEVYNDKNT-----IPTISTCKE 240
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 263 CDDPSRDSYVRRLMTYIEVDSY---GEOLRNKKDLPOQLKNPASMADAGFYRIINQYKF 318

QY 241 YLSFENSIRKDYITTEKLYNNAFLAGSVPVYLG--PSRENYENYIPAD-SFTHVEDFNSPSEL 298
   |||: ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 319 ILAFENAVDDDYITEKFMRLKLGVPVYVYGSPTS---ITDMLPSNKSALIVSEFSHPREL 375

QY 299 AKYLEKVDKNNKLYLSPNNMR 319
DB 376 ASTIRRLDSDRLYEAYVEWK 396

RESULT 15
US-10-120-319-8
; Sequence 8, Application US/10120319
; Patent No. US20020164749A1
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 454
; TYPE: prt
; ORGANISM: Helicobacter pylori
; US-10-120-319-8

Query Match
Best Local Similarity 7.6%; Score 149; DB 9; Length 454;
Matches 75; Conservative 46; Mismatches 113; Indels 56; Gaps 13;

QY 31 KPTNSWVSPMESASSVLKMKNFSTKTDYF---NETTIIYVWMPFGQFDLTSCQAMFN 87
   |||: ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 65 KPADIYFGNPLGSAKKILSYON---TKRIIFYTGENSES-----PWFNLFDAVIGDELD 114

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Thu Nov 21 11:41:18 2002

us-09-744-748-1.rapb

Page 8

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QY 88 IOGCHLTTRSLYKNSHAVLIHHRDISMDLTNLPOOARPPFOKIMWNLESPTHTPOKSG 147
   :      :      :      :      :      :      :      :      :      :
Db 115 FR-----DRYLMPLYDRLHKKAESVNDTAPYKIKGN---SLXTLKKPSHCER--- 161
QY 148 IEHLEFNLTLTYRRSDIQPYGFLTYSTNPFVEBPSKEKLYCQVYVSNMNPHEHARYKYA 207
   :      :      :      :      :      :      :      :      :      :
Db 162 -ENHRYLCLALINNESD-----PLKRGFASFVASNANAP-MRNAFTD 200
QY 208 ELSKSTIEHTYGOA---FGEYVNDKNLIPTISTCKFTYLSFENSIMKDYITEKLYNAFLA 263
   :      :      :      :      :      :      :      :      :      :
Db 201 ALN-SIEPVYGGAVKNTLGYKGNKS--EFLSQYKFNLCFENSOGGYVTEKTIIDAYFS 257
QY 264 GSYVYVVLGPPSRENYEYIPADSEFIHVEDFNSPSELAKYLEKVDKNNKLYL 313
   :      :      :      :      :      :      :      :      :      :
Db 258 HTLPIYWG-SPSYAKDNP-KSEFVNHDENFDEAIDYVRYLHTHPNAYL 305
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Search completed: November 20, 2002, 16:10:08
Job time : 9.5 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 20, 2002, 16:02:04 ; Search time 139.5 Seconds
(without alignments)
1659.206 Million cell updates/sec

Title: US-09-744-748-1

Perfect score: 1970
Sequence: 1 MTSKSGILRPFLIVCIILG.....HYKRQEKYSVGNLEKMFVN 359

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Pending_Patents_AA_Main:*

- 1: /cgn2_6/ptodata/1/paa/PCTUS_COMB.pep.*
- 2: /cgn2_6/ptodata/1/paa/US06_COMB.pep.*
- 3: /cgn2_6/ptodata/1/paa/US07_COMB.pep.*
- 4: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
- 5: /cgn2_6/ptodata/1/paa/US082_COMB.pep.*
- 6: /cgn2_6/ptodata/1/paa/US083_COMB.pep.*
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- 9: /cgn2_6/ptodata/1/paa/US086_COMB.pep.*
- 10: /cgn2_6/ptodata/1/paa/US087_COMB.pep.*
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- 25: /cgn2_6/ptodata/1/paa/US102_COMB.pep.*
- 26: /cgn2_6/ptodata/1/paa/US103_COMB.pep.*
- 27: /cgn2_6/ptodata/1/paa/US104_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1961	99.5	359	21	US-09-744-748-2
3	791	40.2	356	1	PCT-US99-20354-7
4	791	40.2	356	25	US-10-120-319-12
5	791	40.2	356	25	US-10-189-977-12
6	768.5	39.0	355	21	US-09-733-524-8

7	706	35.8	433	25	US-10-120-319-11	Sequence 11, Appl
8	706	35.8	433	25	US-10-189-977-11	Sequence 11, Appl
9	693.5	35.2	405	7	US-08-386-716-8	Sequence 8, Appl
10	691.5	35.1	405	12	US-08-823-489-8	Sequence 8, Appl
11	691.5	35.1	405	22	US-09-863-475-8	Sequence 8, Appl
12	691.5	35.1	405	22	US-09-863-475-8	Sequence 8, Appl
13	691	35.1	352	6	US-08-268-505-5	Sequence 5, Appl
14	691	35.1	352	6	US-08-442-962-5	Sequence 5, Appl
15	689	35.0	362	10	US-08-657-215A-2	Sequence 2, Appl
16	678.5	34.4	432	21	US-09-733-524-7	Sequence 7, Appl
17	677.5	34.4	405	16	US-09-228-966-4	Sequence 4, Appl
18	677	34.4	365	27	US-60-243-468-887	Sequence 4, Appl
19	670	34.0	361	12	US-08-823-489-2	Sequence 887, App
20	670	34.0	361	22	US-09-863-475-2	Sequence 2, Appl
21	670	34.0	361	22	US-09-863-475A-2	Sequence 2, Appl
22	670	34.0	374	12	US-08-823-489-11	Sequence 11, Appl
23	670	34.0	374	22	US-09-863-475-11	Sequence 11, Appl
24	670	34.0	374	22	US-09-863-475A-11	Sequence 11, Appl
25	665.5	33.8	359	1	PCT-US01-14827-8395	Sequence 8395, Ap
26	665.5	33.8	359	1	PCT-US01-14827-8406	Sequence 8406, Ap
27	665.5	33.8	359	1	PCT-US01-14827-8417	Sequence 8417, Ap
28	665.5	33.8	359	12	US-08-823-489-14	Sequence 14, Appl
29	665.5	33.8	359	22	US-09-863-475-14	Sequence 14, Appl
30	665.5	33.8	359	22	US-09-863-475A-14	Sequence 14, Appl
31	665.5	33.8	359	25	US-10-120-319-10	Sequence 10, Appl
32	665.5	33.8	359	25	US-10-189-977-10	Sequence 10, Appl
33	662	33.6	358	21	US-09-733-524-6	Sequence 6, Appl
34	657	33.4	365	25	US-10-120-319-9	Sequence 9, Appl
35	657	33.4	365	25	US-10-189-977-9	Sequence 9, Appl
36	656	33.3	308	6	US-08-268-505-4	Sequence 4, Appl
37	656	33.3	308	8	US-08-442-962-4	Sequence 4, Appl
38	646	32.8	361	1	PCT-US99-20354-5	Sequence 5, Appl
39	641	32.5	365	1	PCT-US99-20354-6	Sequence 6, Appl
40	639	32.4	292	22	US-09-844-948-4	Sequence 4, Appl
41	639	32.4	292	25	US-10-184-848-22	Sequence 22, Appl
42	622	31.6	306	6	US-08-268-505-3	Sequence 3, Appl
43	622	31.6	306	6	US-08-442-962-3	Sequence 3, Appl
44	622	31.6	342	6	US-08-268-505-2	Sequence 2, Appl
45	622	31.6	342	7	US-08-361-306A-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-744-748-1
Sequence 1, Application US/09744748
GENERAL INFORMATION:
APPLICANT: KYOMA HAKKO KOGYO CO., LTD.
TITLE OF INVENTION: NOVEL PEPTIDE
FILE REFERENCE: H10-0981N2
CURRENT APPLICATION NUMBER: US/09/744,748
CURRENT FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: JP0698/213823
PRIOR FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 359
TYPE: PRT
ORGANISM: Mouse
US-09-744-748-1

Query Match 100.0% Score 1970: DB 21: Length 359;
Best Local Similarity 100.0% Pred. No. 9.4e-185;
Matches 359; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSKSGILRPFLIVCIILGCFMACLLIYIKPTNSVSPMSASSVLMKKNFFSTKTDY 60
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DB 1 MTSKSGILRPFLIVCIILGCFMACLLIYIKPTNSVSPMSASSVLMKKNFFSTKTDY 60
QY 61 FHEETLVVWMPGQTFDLTSCQAMFNIGCHLTDRSLYNKSHAVLHHRDLSMDLNL 120
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Db 61 FNETTILVWVPFGQTFDLTSCQAMFNIQCGHLLTDRSLYKSHAVLIHHRDISMDLTNL 120
QY 121 POQARPPFOKIMWNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVYGFGLVSTNPFV 180
Db 121 POQARPPFOKIMWNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVYGFGLVSTNPFV 180
QY 181 EVPSKEKLYCVVSNMNPDEHARVYKYNELSKSIEIHTYGAQGEYVNDKLIPTISTCK 240
Db 181 EVPSKEKLYCVVSNMNPDEHARVYKYNELSKSIEIHTYGAQGEYVNDKLIPTISTCK 240
QY 241 YLSEFNSIHKDYITEKLYNAFLAGSVYVGLGSPRENTENTIPADSFTHVEDFNSPSELAK 300
Db 241 YLSEFNSIHKDYITEKLYNAFLAGSVYVGLGSPRENTENTIPADSFTHVEDFNSPSELAK 300
QY 301 YLKEVDKNNKLYLSYFNMKRDFTYNLPRFWEASHACLADHVKKRHOEYKSGVNEKMFVN 359
Db 301 YLKEVDKNNKLYLSYFNMKRDFTYNLPRFWEASHACLADHVKKRHOEYKSGVNEKMFVN 359

RESULT 2
US-09-744-748-2
; Sequence 2, Application US/09744748
; GENERAL INFORMATION:
; APPLICANT: KYOMA HAKKO KOGYO CO., LTD.
; TITLE OF INVENTION: NOVEL PEPTIDE
; FILE REFERENCE: H10-0981N2
; CURRENT APPLICATION NUMBER: US/09/744,748
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: JPO098/213823
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 2
; LENGTH: 359
; TYPE: PPT
; ORGANISM: human
US-09-744-748-2

Query Match 99.5%; Score 1961; DB 21; Length 359;
Best Local Similarity 99.2%; Pred. No. 7.2e-184;
Matches 356; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 WTSTSKGILRPFLIVCIILGCFNACLLIYIKPTNSWFSMESASVYLKKNFESTKTDY 60
Db 1 WTSTSKGILRPFLIVCIILGCFNACLLIYIKPTNSWFSMESASVYLKKNFESTKTDY 60
QY 61 FNETTILVWVPFGQTFDLTSCQAMFNIQCGHLLTDRSLYKSHAVLIHHRDISMDLTNL 120
Db 61 FNETTILVWVPFGQTFDLTSCQAMFNIQCGHLLTDRSLYKSHAVLIHHRDISMDLTNL 120
QY 121 POQARPPFOKIMWNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVYGFGLVSTNPFV 180
Db 121 POQARPPFOKIMWNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVYGFGLVSTNPFV 180
QY 181 EVPSKEKLYCVVSNMNPDEHARVYKYNELSKSIEIHTYGAQGEYVNDKLIPTISTCK 240
Db 181 EVPSKEKLYCVVSNMNPDEHARVYKYNELSKSIEIHTYGAQGEYVNDKLIPTISTCK 240
QY 241 YLSEFNSIHKDYITEKLYNAFLAGSVYVGLGSPRENTENTIPADSFTHVEDFNSPSELAK 300
Db 241 YLSEFNSIHKDYITEKLYNAFLAGSVYVGLGSPRENTENTIPADSFTHVEDFNSPSELAK 300
QY 301 YLKEVDKNNKLYLSYFNMKRDFTYNLPRFWEASHACLADHVKKRHOEYKSGVNEKMFVN 359
Db 301 YLKEVDKNNKLYLSYFNMKRDFTYNLPRFWEASHACLADHVKKRHOEYKSGVNEKMFVN 359

RESULT 3
PCT-US99-20354-7
; Sequence 7, Application PC/TUS9920354
; GENERAL INFORMATION:
; APPLICANT: Cummings, Richard D.
; APPLICANT: Nyame, Anthony Kwame

; APPLICANT: Debose-Boyd, Russell
; TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES ENCODING
; TITLE OF INVENTION: FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMALS
; FILE REFERENCE: 617313-6
; CURRENT APPLICATION NUMBER: PCT/US99/20354
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/098,922
; EARLIER FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 7
; LENGTH: 356
; TYPE: PPT
; ORGANISM: Caenorhabditis elegans
; FEATURE:
; OTHER INFORMATION: CFT-1
PCT-US99-20354-7

Query Match 40.2%; Score 791; DB 1; Length 356;
Best Local Similarity 50.3%; Pred. No. 1.5e-68;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;
QY 63 ETTILVWVPFGQTFDLTSCQAMFNIQCGHLLTDRSLYKSHAVLIHHRDISMDLTNLP 121
Db 56 EYTLVLMWEPGRBPRADCCRRYNTIGCLLSADRGYGEARVALFHHRDLALHGRQLP 115
QY 122 Q-QARPPFOKIMWNLESPTHTPOKSGIEHLFNLTLTYRRSDIOVYGFGLVSTNPFV 179
Db 116 RQPPRPPRQRMWMMNFPESHSPGLAGLGLFWMTSYRRSDSVFVGYLYEPSPRP 175
QY 180 EVPSKEKLYCVVSNMNPDEHARVYKYNELSKSIEIHTYGAQGEYVNDKLIPTISTCK 239
Db 176 EVLPKSKLYAVNISNMNPDEHARVYKYNELSKSIEIHTYGAQGEYVNDKLIPTISTCK 234
QY 240 YLSEFNSIHKDYITEKLYNAFLAGSVYVGLGSPRENTENTIPADSFTHVEDFNSPSEL 298
Db 235 FYLAENSQHTDYITEKLYNAFLAGSVYVGLGSPRENTENTIPADSFTHVEDFNSPSEL 294
QY 299 AKYLEVDKNNKLYLSYFNMKRDFTYNLPRFWEASHACLADHVKKRHOEYKSGVNEKMF 357
Db 295 AYTLKFLDKNRPYRRYFAMRNKYEIVHTSFMDHYKCEAVTAGNOLKTVONLAGWP 354

RESULT 4
US-10-120-319-12
; Sequence 12, Application US/10120319
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 12
; LENGTH: 356
; TYPE: PPT
; ORGANISM: Gallus gallus
US-10-120-319-12

Query Match 40.2%; Score 791; DB 25; Length 356;
Best Local Similarity 50.3%; Pred. No. 1.5e-68;
Matches 151; Conservative 49; Mismatches 94; Indels 6; Gaps 5;
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Db 56 EYTLVLMWEPGRBPRADCCRRYNTIGCLLSADRGYGEARVALFHHRDLALHGRQLP 115

[illegible][illegible]

Thu Nov 21 11:41:19 2002

us-09-744-748-1.rapm

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Db 92 VLLMWEPPRRGGGYPKSPDSCSLRFNIGSGLRLTDRRAAYGEAOAVLFHHRDLVKELDHWP 151
Qy 122 QO-----ARPPQKIMWNLESPTHTPOKSG 147
Db 152 PRKARERTKALVLRVEDDQGAVTLLTGKALETVGSRRPGQWVMNFEPSHTPGGLG 211
Qy 148 I-EHLFNLTLTRSDSDIOPVGFVSTNPFVEVPS-----KEKLYCQWVSNMP 198
Db 212 LAKLEFWMTLSYRSDSDVFPVGFVLSRSDP--TEOPSGGLPOLARRGLVAMVVSNNNE 269
Qy 199 EBARVKYINELSKSIEIHTYGQAF-GEYVNDKNLPTISTCKEYLSFENSIIHKDYITEKL 257
Db 270 HOAARVYIHOLSRHVSVDVFGRTGPRVPAIGLHTVARKEFYLAFLENSRIHDYITEKL 329
Qy 258 Y-NAFLAGSVPVVGLGSRRENYEIPADSFIVHEDENSPSELAKYKEDKNKLYLSEYF 316
Db 330 WRNNAFLAGAVPVVGLGPRANRYERFVRGAFIHVDDFPNMAAIAVLFLDRNVAVYTRRF 389
Qy 317 NMRKDFTVNLPRFESHACIACDHYKRN-OEYKSYGNLEKMP 357
Db 390 RMRSFVAVHITSFWDQWCRCAVQTSDDPKSITHNLADWF 431

RESULT 8
US-10-189-977-11
; Sequence 11, Application US/10189977
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/189, 977
; PRIOR FILING DATE: 2002-07-03
; PRIOR FILING DATE: 1998-06-05
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-189-977-11

Query Match 35.8%; Score 706; DB 25; Length 433;
Best Local Similarity 42.7%; Pred. No. 4.7e-60;
Matches 146; Conservative 48; Mismatches 96; Indels 52; Gaps 8;
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Qy 66 ILVWVPE-----GQTFDLTSCAMENIOGCHLTDRSLYKNSHAVLIHHRDLSMDLTNP 121
Db 92 VLLMWEPPRRGGGYPKSPDSCSLRFNIGSGLRLTDRRAAYGEAOAVLFHHRDLVKELDHWP 151
Qy 122 QO-----ARPPQKIMWNLESPTHTPOKSG 147
Db 152 PRKARERTKALVLRVEDDQGAVTLLTGKALETVGSRRPGQWVMNFEPSHTPGGLG 211
Qy 148 I-EHLFNLTLTRSDSDIOPVGFVSTNPFVEVPS-----KEKLYCQWVSNMP 198
Db 212 LAKLEFWMTLSYRSDSDVFPVGFVLSRSDP--TEOPSGGLPOLARRGLVAMVVSNNNE 269
Qy 199 EBARVKYINELSKSIEIHTYGQAF-GEYVNDKNLPTISTCKEYLSFENSIIHKDYITEKL 257
Db 270 HOAARVYIHOLSRHVSVDVFGRTGPRVPAIGLHTVARKEFYLAFLENSRIHDYITEKL 329
Qy 258 Y-NAFLAGSVPVVGLGSRRENYEIPADSFIVHEDENSPSELAKYKEDKNKLYLSEYF 316
Db 330 WRNNAFLAGAVPVVGLGPRANRYERFVRGAFIHVDDFPNMAAIAVLFLDRNVAVYTRRF 389
Qy 317 NMRKDFTVNLPRFESHACIACDHYKRN-OEYKSYGNLEKMP 357
Db 390 RMRSFVAVHITSFWDQWCRCAVQTSDDPKSITHNLADWF 431
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RESULT 9
US-08-386-716-8
; Sequence 8, Application US/08386716
; GENERAL INFORMATION:
; APPLICANT: Matzele, Gabriele
; APPLICANT: Berger, Eric G.
; APPLICANT: Meyhack, Bernd
; TITLE OF INVENTION: Improved Process for the Production of
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386, 716
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/193, 987
; FILING DATE:
; APPLICATION NUMBER: US/07/891, 525
; FILING DATE: 29-MAY-1992
; APPLICATION NUMBER: DE 91810414.2
; FILING DATE: 31-MAY-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE 92810167.4
; FILING DATE: 04-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9208211.4
; FILING DATE: 14-APR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Foley, Shawn P.
; REGISTRATION NUMBER: 33, 071
; REFERENCE/DOCKET NUMBER: 4-18658/A/B/C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-386-716-8

Query Match 35.2%; Score 693.5; DB 7; Length 405;
Best Local Similarity 38.8%; Pred. No. 7.3e-59;
Matches 154; Conservative 59; Mismatches 109; Indels 75; Gaps 14;
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Qy 15 VCIIGCMAC--LIITY-----KPTNSVPSMESASSVLKRNFFSTKDYENETIIV 68
Db 28 VCIVAAALITLALTITACWGLPPLPWA-SPVPS-----RPVGVLL 68
Qy 69 WVPFGQFQFDL-----TSCAMENIOGCHLTDRSLYKNSHAVLIHHRDLSMDLTNP 115
Db 69 WVPFGQFQFDL-----TSCAMENIOGCHLTDRSLYKNSHAVLIHHRDLSMDLTNP 115
Qy 116 -----DLTLPDQ-----ARPPQKIMWNLESPTHTP--OKSGIEHL 151
Db 129 GIOAHTAEVDLRYVDEEAAAAAALATSSPRPQWVMNFEPSHTPGGLG 188
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QY 15 VCIILGCFMAC--LLIYI-----KPTNSWVSPMESASVLMKKNPFSTRTDYFNETTIV 68
 DB 28 VCVLAAGLTCTALITYACWGOLPLPWA-SPTPS-----RPVGYL 68
 QY 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
 DB 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
 QY 116 -----DLTNPQO-----APPFQKWMNIESPTHP-OKSGIEHL 151
 DB 129 GIOAHAEVDRLVLYDEEAAAALATSSPRPGQWVMNFPESHSGLSLNSL 188
 QY 152 FNLITLYRRSDIOVYGFLLVSTNPFVEEYPS-----KELVGVVYSSNNPEHARY 203
 DB 189 FNLITLYRRSDIOVYGFLLVSTNPFVEEYPS-----KELVGVVYSSNNPEHARY 203
 QY 204 KYNELSKSIEIHLYGQAF-GEVYNDKMLPTISTCKEYLSFENSIRKDYITERKLY-NAF 261
 DB 247 RYHQLSQHVTVDFVGRGPGQVPEIGLHTVARYKFYLAFENSCHLDYITERKLY-NAF 306
 QY 262 LAGSVPVVILGSPRENYEYIPADSFIVHEDPNSPELAKYLEVDKNNKLYLSYFNRKD 321
 DB 307 LAGSVPVVILGSPRENYEYIPADSFIVHEDPNSPELAKYLEVDKNNKLYLSYFNRKD 321
 QY 322 FTVNLPFWESHACLADHYKHOEY-KSYGNLEKMF 357
 DB 367 YAVHITSPWDEPCRCVQAVQAGDRKPSIRNLASWF 403

RESULT 12
 US-09-863-475A-8
 ; Sequence 8, Application US/09863475A
 ; GENERAL INFORMATION:
 ; APPLICANT: LOWE, JOHN B.
 ; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 ; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 ; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 ; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 ; P.C.
 ; STREET: 1755 Jefferson Davis Highway, Fourth Floor
 ; CITY: Arlington
 ; STATE: Virginia
 ; COUNTRY: U.S.A.
 ; ZIP: 22202
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/863,475A
 ; FILING DATE: 24-MAY-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/914,281
 ; FILING DATE: 20-JUL-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Lavalleye, Jean-Paul M. P.
 ; REGISTRATION NUMBER: 31,451
 ; REFERENCE/DOCKET NUMBER: 2363-060-55
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (703)521-4500
 ; TELEFAX: (703)486-2347
 ; TELEX: 248855 OPAT UR
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 403 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: unknown

; MOLECULE TYPE: protein
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 US-09-863-475A-8

Query Match 35.1%; Score 691.5; DB 22; Length 405;
 Best Local Similarity 38.8%; Pred. No. 1.2e-58;
 Matches 154; Conservative 58; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI-----KPTNSWVSPMESASVLMKKNPFSTRTDYFNETTIV 68
 DB 28 VCVLAAGLTCTALITYACWGOLPLPWA-SPTPS-----RPVGYL 68
 QY 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
 DB 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTDRSLYNKSHAVLIHHRDI-----SW----- 115
 QY 116 -----DLTNPQO-----APPFQKWMNIESPTHP-OKSGIEHL 151
 DB 129 GIOAHAEVDRLVLYDEEAAAALATSSPRPGQWVMNFPESHSGLSLNSL 188
 QY 152 FNLITLYRRSDIOVYGFLLVSTNPFVEEYPS-----KELVGVVYSSNNPEHARY 203
 DB 189 FNLITLYRRSDIOVYGFLLVSTNPFVEEYPS-----KELVGVVYSSNNPEHARY 203
 QY 204 KYNELSKSIEIHLYGQAF-GEVYNDKMLPTISTCKEYLSFENSIRKDYITERKLY-NAF 261
 DB 247 RYHQLSQHVTVDFVGRGPGQVPEIGLHTVARYKFYLAFENSCHLDYITERKLY-NAF 306
 QY 262 LAGSVPVVILGSPRENYEYIPADSFIVHEDPNSPELAKYLEVDKNNKLYLSYFNRKD 321
 DB 307 LAGSVPVVILGSPRENYEYIPADSFIVHEDPNSPELAKYLEVDKNNKLYLSYFNRKD 321
 QY 322 FTVNLPFWESHACLADHYKHOEY-KSYGNLEKMF 357
 DB 367 YAVHITSPWDEPCRCVQAVQAGDRKPSIRNLASWF 403

RESULT 13
 US-08-268-505-5
 ; Sequence 5, Application US/08268505
 ; GENERAL INFORMATION:
 ; APPLICANT: NATSUKA, SHUNJI
 ; APPLICANT: GERSTEN, KEVIN M
 ; TITLE OF INVENTION: CDNA ENCODING A HUMAN LEUKOCYTE
 ; TITLE OF INVENTION: ALPHA(1,3) FUCOSYLTRANSFERASE CAPABLE OF SYNTHESIZING THE
 ; NUMBER OF SEQUENCES: 7
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT
 ; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: USA
 ; ZIP: 22202
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/268,505
 ; FILING DATE: 30-JUN-1994
 ; CLASSIFICATION: 530
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (703) 413-3000
 ; TELEFAX: (703) 413-2220
 ; TELEX: 248855 OPAT UR
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 352 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single

Thu Nov 21 11:41:19 2002

us-09-744-748-1.rapm

Page 8

Oy	10	RPFLIVCIIACFMAACLLTYIKRPNSWVFSMESASSVLKMKNEFSKTYUF--NETTIIY	68
Db	14	RPCEIGLLDQLFALCFESYIYVSHDQGRPARDSR-----GRASPTTPVVRPRLLD	68
Oy	69	WVWFEGQFEDLTSCQAF--NIQCHLTIDSLYKSHAVULIHHNDISWDLTN--LPQAR	126
Db	69	WTFVFRSHLTLYPESKMILPTADQDMVNSLSYQADAVLGNHREISPNRSLLPQSPR	128
Oy	127	PEQKIMMNLSPPHTQKSGIEELFYLLTLYRSDIOUVRGLYSTPFR---FEVY	183
Db	129	PGQRWVMSLESPHCSTSLADQFYMLTMSRKSDSLPFRGYLDMWAPRYQTVNMS	188
Oy	184	SKKEIKYCVVNSNMPREARVYVYELSKSIEIPIHVGQAFGEYVDKLLPTISTCKPYLS	243
Db	189	AKTDLVMAVANSMPKSKRVLYYKLOSHLDVYUGGNRP--LSKQDMGTLAKRYFLA	247
Oy	244	FENSHHNDYTEUKY--NAFLAGSPVYLGSRKEMVYIRADSTINVEDRNSSELAATL	302
Db	248	FENSHHPDYITEKIKKLNLEMAVFPVYDGSRKATKEFLPDAIIVHDDSPADIAQYL	307
Oy	303	KEVQKNNKLYSTYNNKDKFLVNLPRWESHIA--CLASHVVRHDEYKSYGULKEWF	357
Db	308	QRLDDSDSYSTRIRWGETLR--PRL--SSALALFCAQCKOLOMDQNTQVHVSASVF	361

Search completed: November 20, 2002, 16:09:22
Job time : 141.5 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 16:02:29 ; Search time 9 Seconds
(without alignments)
1350.856 Million cell updates/sec

Title: US-09-744-748-1

Perfect score: 1970

Sequence: 1 MTSTSKGILRFLIYCILG.....HYKRHQEYKSYGNLEKMFVN 359

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 96903 seqs, 33865481 residues

Total number of hits satisfying chosen parameters: 96903

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_AA_New : *
1: /cgn2_6/ptodata/2/paa/PCF_NEW_COMB.pep : *
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep : *
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep : *
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep : *
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep : *
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep : *
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep : *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	96.5	4.9	364	US-10-131-813A-186	Sequence 186, App
2	96.5	4.9	364	US-10-131-819A-186	Sequence 186, App
3	96.5	4.9	364	US-10-131-823A-186	Sequence 186, App
4	96.5	4.9	364	US-10-131-824A-186	Sequence 186, App
5	96.5	4.9	364	US-10-131-826A-186	Sequence 186, App
6	96.5	4.9	364	US-10-131-829A-186	Sequence 186, App
7	96.5	4.9	364	US-10-125-926A-186	Sequence 186, App
8	96.5	4.9	364	US-10-127-829A-186	Sequence 186, App
9	96.5	4.9	364	US-10-127-831A-186	Sequence 186, App
10	96.5	4.9	364	US-10-127-835A-186	Sequence 186, App
11	96.5	4.9	364	US-10-127-837A-186	Sequence 186, App
12	96.5	4.9	364	US-10-127-842A-186	Sequence 186, App
13	96.5	4.9	364	US-10-127-850A-186	Sequence 186, App
14	96.5	4.9	364	US-10-127-901A-186	Sequence 186, App
15	96.5	4.9	364	US-10-128-689A-186	Sequence 186, App
16	96.5	4.9	364	US-10-131-830A-186	Sequence 186, App
17	96.5	4.9	364	US-10-131-833A-186	Sequence 186, App
18	96.5	4.9	364	US-10-131-837A-186	Sequence 186, App
19	96.5	4.9	364	US-10-125-930A-186	Sequence 186, App
20	96.5	4.9	364	US-10-127-825A-186	Sequence 186, App
21	96.5	4.9	364	US-10-127-838B-186	Sequence 186, App
22	96.5	4.9	364	US-10-127-843A-186	Sequence 186, App
23	96.5	4.9	364	US-10-127-849A-186	Sequence 186, App
24	96.5	4.9	364	US-10-128-684A-186	Sequence 186, App
25	96.5	4.9	364	US-10-128-685A-186	Sequence 186, App
26	96.5	4.9	364	US-10-128-686A-186	Sequence 186, App

ALIGNMENTS

27	96.5	4.9	364	US-10-128-690A-186	Sequence 186, App
28	96.5	4.9	364	US-10-128-693A-186	Sequence 186, App
29	96.5	4.9	364	US-10-131-821A-186	Sequence 186, App
30	96.5	4.9	364	US-10-131-836A-186	Sequence 186, App
31	96.5	4.9	364	US-10-137-872A-186	Sequence 186, App
32	96.5	4.9	364	US-10-137-873A-186	Sequence 186, App
33	96.5	4.9	364	US-10-125-921A-186	Sequence 186, App
34	96.5	4.9	364	US-10-125-928A-186	Sequence 186, App
35	96.5	4.9	364	US-10-127-832A-186	Sequence 186, App
36	96.5	4.9	364	US-10-127-822A-186	Sequence 186, App
37	96.5	4.9	364	US-10-127-824A-186	Sequence 186, App
38	96.5	4.9	364	US-10-127-827A-186	Sequence 186, App
39	96.5	4.9	364	US-10-127-830A-186	Sequence 186, App
40	96.5	4.9	364	US-10-127-832A-186	Sequence 186, App
41	96.5	4.9	364	US-10-127-834A-186	Sequence 186, App
42	96.5	4.9	364	US-10-127-836A-186	Sequence 186, App
43	96.5	4.9	364	US-10-127-839A-186	Sequence 186, App
44	96.5	4.9	364	US-10-127-840A-186	Sequence 186, App
45	96.5	4.9	364	US-10-127-841A-186	Sequence 186, App

RESULT 1
US-10-131-813A-186
; Sequence 186, Application US/10131813A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C139
; CURRENT APPLICATION NUMBER: US/10/131, 813A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186

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us-09-744-748-1.ram

Page 2

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; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-813A-186

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Query Match	4.98;	Score 96.5;	DB 6;	Length 364;
Best Local Similarity	24.6%;	Pred. No. 0.51;		
Matches	56;	Conservative 32;	Mismatches 89.	Indels 5

[illegible]

RESULT 2

US-10-131-819A-186
; Sequence 186, Application US/10131819A
; GENERAL INFORMATION.

1 APPLICANT: Baker, Kevin P.
 2 APPLICANT: Bersini, Maureen
 3 APPLICANT: Deforge, Laura
 4 APPLICANT: Desnoyers, Luc
 5 APPLICANT: Filvaroff, Ellen
 6 APPLICANT: Gao, Wei-Qiang
 7 APPLICANT: Gerritsen, Mary E.
 8 APPLICANT: Goddard, Audrey
 9 APPLICANT: Godowski, Paul J.
 10 APPLICANT: Gurney, Austin L.
 11 APPLICANT: Sherwood, Steven
 12 APPLICANT: Smith, Victoria
 13 APPLICANT: Stewart, Timothy A.
 14 APPLICANT: Tumas, Daniel
 15 APPLICANT: Watanabe, Colin K
 16 APPLICANT: Wood, William
 17 APPLICANT: Zhang, Zemin
 18 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEOTIC
 19 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 20 FILE REFERENCE: P3330R1C134

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CURRENT APPLICATION NUMBER: US/10/131,819A
PRIOR FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM

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; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: prt
; ORGANISM: Homo Sapien
US-10-131-819A-186

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Query Match	4.98;	Score 96.5;	DB 6;	Length 364;
Best Local Similarity	24.68;	Pred. No. 0.51;		
Matches 56; Conservative	32;	Mismatches	80;	Indels 7

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Db      24  TQGSASIKLBRANLRDRLIYRDETIOVK--GNGYVOSPRPNSP--P--RNLLTWRLHSOE 81
OY      198  PEHARKYIYNELSKS-----IEIHYYGAF-----GEYVNDKNIPTIS--HCKF 240
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Db      82  NTRIDIVPNOGLEAEANDICRYDFEVEDISESTIRINGRCWGKHKEVPRILSKRNQI 141
OY      241  VLSFNSIHKDYIIE---KYNAFIAGSVYVLGSPREMENTIPADSIHEDENSPS 286
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      142  KITFEKSD--DYFAKPGFKIYISLDEPQFA--AASETWES---VTSISGVSYNSPS 193
OY      297  -----ELAKLIKVEDKNNKIKLYLSEY--WRKQFT---VNLPRF 329
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Db      194  VDPDLIADLDKKAIEDIYVEDI--LKYFNPESQOEDLENNMYLDTPRY 240

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RESULT 3

US-10-131-823A-186
; Sequence 186, Application US/10131823A
; GENERAL INNOVATION

GENERATED INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Guirney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Collin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
FILE NUMBER:

CURRENT APPLICATION NUMBER: 05/10/
 CURRENT FILING DATE: 2002-04-24
 PRIOR APPLICATION NUMBER: 60/04991
 PRIOR FILING DATE: 1997-06-18
 PRIOR APPLICATION NUMBER: 60/05697
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/05911
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/05911
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/05911
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/05912
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/05918
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/05926
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/05935
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588

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; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-829A-186
```

Query Match 4.9%; Score 96.5; DB 6; Length 364;

Best Local Similarity 24.6%; Pred. No. 0.51; Mismatches 89; Indels 51; Gaps 14;

Matches 56; Conservative 32; Indels 51; Gaps 14;

```
OY 142 TPQKSGIEHFLNLT-----TYRSDIOVPGFLTVSTNPFYFEVPSKEKLYCWVYSNMN 197
DB 24 TPQASIKALRNANLRDDLYRDETIQK-GNGYQSPFPNSYP-RNLLTLRLHSOE 81
OY 198 PEHARVRYNELSKS-----IEIHTYQAF---GEVYDNKLIPTIS--TCKF 240
DB 82 NTRIQLVFNQGLEAENDICRYDFEVEDISFTIIRGWCCHKVPPRIKSRITNDI 141
OY 241 YLSFENSIHKDYITE---KLNAFLAGSVPVVLGSPRENYENYIPADSFTHVEDFNSPS 296
DB 142 KITFKSD---DYFAKPGFKIYSLLEDFQPA--AASETNWES---VTSISGVSYNSPS 193
OY 297 -----ELAKYKREVDKNKNTLYSYFN--WRKDF--VNLPRF 329
DB 194 VTDPFTLADALDKKIAEFDTVEDL-LKYFNPESQEDLENMYLDTPRY 240
```

RESULT 6

US-10-131-829A-186

Sequence 186, Application US/10131829A

```
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroft, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C138
; CURRENT APPLICATION NUMBER: US/10/131,829A
; PRIOR FILING DATE: 2002-04-27
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
```

```
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-829A-186
```

Query Match 4.9%; Score 96.5; DB 6; Length 364;

Best Local Similarity 24.6%; Pred. No. 0.51; Mismatches 89; Indels 51; Gaps 14;

Matches 56; Conservative 32; Indels 51; Gaps 14;

```
OY 142 TPQKSGIEHFLNLT-----TYRSDIOVPGFLTVSTNPFYFEVPSKEKLYCWVYSNMN 197
DB 24 TPQASIKALRNANLRDDLYRDETIQK-GNGYQSPFPNSYP-RNLLTLRLHSOE 81
OY 198 PEHARVRYNELSKS-----IEIHTYQAF---GEVYDNKLIPTIS--TCKF 240
DB 82 NTRIQLVFNQGLEAENDICRYDFEVEDISFTIIRGWCCHKVPPRIKSRITNDI 141
OY 241 YLSFENSIHKDYITE---KLNAFLAGSVPVVLGSPRENYENYIPADSFTHVEDFNSPS 296
DB 142 KITFKSD---DYFAKPGFKIYSLLEDFQPA--AASETNWES---VTSISGVSYNSPS 193
OY 297 -----ELAKYKREVDKNKNTLYSYFN--WRKDF--VNLPRF 329
DB 194 VTDPFTLADALDKKIAEFDTVEDL-LKYFNPESQEDLENMYLDTPRY 240
```

RESULT 7

US-10-125-926A-186

Sequence 186, Application US/10125926A

```
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroft, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C80
; CURRENT APPLICATION NUMBER: US/10/125,926A
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
```

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; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: prt
; ORGANISM: Homo Sapien
US-10-125-926A-186

Query Match
Best Local Similarity 24.6%; Score 96.5; DB 6; Length 364;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

Qy 142 TPQSGIEHLFNLT---TYRSDSDIQVPGFLVSTNPFVEVPSKKEKLYCQWVYNN 197
Db 24 TPQASIKALRNANLRDLDYRDEFTQVK-GNGYQSPRFPNSYP-RULLLTWRLSQE 81
Qy 198 PEHARKYNNELSKS-----IEIHTYGOAF---GEVYNDKNLIPITS--TCKF 240
Db 82 NTRIQVFNQGLBEAENDICRYDFEVEDISESTIIRGRCGKKEVPPRIKSTNQI 141
Qy 241 YLSFENSIRKDYITE---KLYNAFLAGSVPVYLGSRNENYENYIPADSFHVEDNSPS 296
Db 142 KITFKSD--DYFVAKPGFKIYISLEDFQPA--AASETNWES--VTSISGVSYNPS 193
Qy 297 -----ELAKYLEVDKNKKNLYSYFN---WRKDFP---VNLPRF 329
Db 194 VYDPTLIADLDKRIAEFPTVEDL-LKTFNPESQWEDLENMVLDPFRY 240

RESULT 8
US-10-127-829A-186
; Sequence 186, Application US/10127829A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C85
; CURRENT APPLICATION NUMBER: US/10/127, 829A
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
```

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; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: prt
; ORGANISM: Homo Sapien
US-10-127-829A-186

Query Match
Best Local Similarity 24.6%; Score 96.5; DB 6; Length 364;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

Qy 142 TPQSGIEHLFNLT---TYRSDSDIQVPGFLVSTNPFVEVPSKKEKLYCQWVYNN 197
Db 24 TPQASIKALRNANLRDLDYRDEFTQVK-GNGYQSPRFPNSYP-RULLLTWRLSQE 81
Qy 198 PEHARKYNNELSKS-----IEIHTYGOAF---GEVYNDKNLIPITS--TCKF 240
Db 82 NTRIQVFNQGLBEAENDICRYDFEVEDISESTIIRGRCGKKEVPPRIKSTNQI 141
Qy 241 YLSFENSIRKDYITE---KLYNAFLAGSVPVYLGSRNENYENYIPADSFHVEDNSPS 296
Db 142 KITFKSD--DYFVAKPGFKIYISLEDFQPA--AASETNWES--VTSISGVSYNPS 193
Qy 297 -----ELAKYLEVDKNKKNLYSYFN---WRKDFP---VNLPRF 329
Db 194 VYDPTLIADLDKRIAEFPTVEDL-LKTFNPESQWEDLENMVLDPFRY 240

RESULT 9
US-10-127-831A-186
; Sequence 186, Application US/10127831A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C107
; CURRENT APPLICATION NUMBER: US/10/127, 831A
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
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: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059117
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059122
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059184
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059263
: PRIOR FILING DATE: 1997-09-18
: PRIOR APPLICATION NUMBER: 60/059352
: PRIOR FILING DATE: 1997-09-19
: PRIOR APPLICATION NUMBER: 60/059588
: Remaining Prior Application data removed - See file wrapper or PALM.
: NUMBER OF SEQ ID NOS: 550
: SEQ ID NO 186
: LENGTH: 364
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-127-831A-186

Query Match          4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.51;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

OY 142 TPQKSGIEHLFNLTL----TYRRSDIOVPYGFVSTNPVFVPSKEKLYCQVWSNN 197
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 24 TPQSASIKALRNANLRRDLYRDETIQVK-GNGYQSPRPNSYP-RNLLTWRHSGE 81
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 198 PEHARVXYNELSKS-----IEIHNYGOAF-----GEYNDKNIPTIS--TCKF 240
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 82 NTRIQLVFNQGLEAENDICRYPFEVEDISESTIIRKMGCHKEVPRKSRNQ 141
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 241 YLSEFNSIKQDYTE---KLNAFLASVPYVLGSPRENTENTIPADSTIHVEDNS 296
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 142 KITFKSD--DYFAKPGKRITYSLDEDFOPA--AASFTNWS--VTSSISGVSTNSPS 193
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 297 -----ELAKYLEVDKNNKLYLSTFN--WRKDET--VNLPRF 329
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 194 VTDPETLIADALDKRIAEFTVEDL-LKYFNPESWQEDLENNYLDTPRY 240
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-10-127-835A-186
: Sequence 186, Application US/10127835A
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Beresini, Maureen
: APPLICANT: Desnoyers, Luc
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Sherwood, Steven
: APPLICANT: Smith, Victoria
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K
: APPLICANT: Wood, William
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P333ORIC102
: CURRENT APPLICATION NUMBER: US/10/127, 835A
: PRIOR FILING DATE: 2002-10-15
: PRIOR APPLICATION NUMBER: 60/049911
: PRIOR FILING DATE: 1997-06-18
: PRIOR APPLICATION NUMBER: 60/056974
: PRIOR FILING DATE: 1997-08-26
: PRIOR APPLICATION NUMBER: 60/059113
```

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: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059115
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059117
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059122
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059184
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059263
: PRIOR FILING DATE: 1997-09-18
: PRIOR APPLICATION NUMBER: 60/059352
: PRIOR FILING DATE: 1997-09-19
: PRIOR APPLICATION NUMBER: 60/059588
: Remaining Prior Application data removed - See file wrapper or PALM.
: NUMBER OF SEQ ID NOS: 550
: SEQ ID NO 186
: LENGTH: 364
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-127-835A-186

Query Match          4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.51;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

OY 142 TPQKSGIEHLFNLTL----TYRRSDIOVPYGFVSTNPVFVPSKEKLYCQVWSNN 197
||| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 24 TPQSASIKALRNANLRRDLYRDETIQVK-GNGYQSPRPNSYP-RNLLTWRHSGE 81
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 198 PEHARVXYNELSKS-----IEIHNYGOAF-----GEYNDKNIPTIS--TCKF 240
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 82 NTRIQLVFNQGLEAENDICRYPFEVEDISESTIIRKMGCHKEVPRKSRNQ 141
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 241 YLSEFNSIKQDYTE---KLNAFLASVPYVLGSPRENTENTIPADSTIHVEDNS 296
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 142 KITFKSD--DYFAKPGKRITYSLDEDFOPA--AASFTNWS--VTSSISGVSTNSPS 193
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 297 -----ELAKYLEVDKNNKLYLSTFN--WRKDET--VNLPRF 329
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 194 VTDPETLIADALDKRIAEFTVEDL-LKYFNPESWQEDLENNYLDTPRY 240
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
US-10-127-837A-186
: Sequence 186, Application US/10127837A
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Beresini, Maureen
: APPLICANT: Desnoyers, Luc
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Sherwood, Steven
: APPLICANT: Smith, Victoria
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K
: APPLICANT: Wood, William
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P333ORIC96
: CURRENT APPLICATION NUMBER: US/10/127, 837A
: PRIOR FILING DATE: 2002-10-17
: PRIOR APPLICATION NUMBER: 60/049911
: PRIOR FILING DATE: 1997-06-18
: PRIOR APPLICATION NUMBER: 60/056974
```



```
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-127-837A-186

Query Match          4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.51;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

QY 142 TPQKSGIEHLFNLT---TYRRSDIQVPGFLVSTNPFEYFVPSKKEKLVQWVSMNN 197
      ||| : | : | : |||| | | | : | : | : | : | : | : | : | : | : | : | :
DB 24 TPQASIKRLRANLRRDLYRRDETIOYK-GNGYVQSPRFNSYP-RNLLLTWRLHSGE 81
      ||| : | : | : |||| | | | : | : | : | : | : | : | : | : | : | : | :
QY 198 PEHARKYKYNELSKS-----IEIHTYGQAF---GEYVNDKNIIPITIS--TCKE 240
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
DB 82 NTRIQLVFNQGLEAEANDICRYDFEVEDISESTIIRGHCCKEVPPIKSKRTNOI 141
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 241 YLSFENSIIKDVITE---KLYNAPLAGSVPVYLGSRNENYNIIPADSFIVHEDFNSS 296
      : : : : | | : | : | : | : | : | : | : | : | : | : | : | : | :
DB 142 KITFKSD--DYFVAKPGKRIYISLEDFQPA--AASETNWBS---VTSISGSVSNSS 193
      : : : : | | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 297 -----ELAKYKEVDKNNKLYISYFN--WRKDF---VNLPRF 329
      | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
DB 194 VMDPLIADALDKKIAEFDTVEDL-LKYFNPESQWQEDLENMVLDPPIRY 240

RESULT 12
US-10-127-842A-186
; Sequence 186, Application US/10127842A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330RIC100
; CURRENT APPLICATION NUMBER: US/10/127, 842A
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/049911
```

```
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-127-842A-186

Query Match          4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.51;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

QY 142 TPQKSGIEHLFNLT---TYRRSDIQVPGFLVSTNPFEYFVPSKKEKLVQWVSMNN 197
      ||| : | : | : |||| | | | : | : | : | : | : | : | : | : | : | : | :
DB 24 TPQASIKRLRANLRRDLYRRDETIOYK-GNGYVQSPRFNSYP-RNLLLTWRLHSGE 81
      ||| : | : | : |||| | | | : | : | : | : | : | : | : | : | : | : | :
QY 198 PEHARKYKYNELSKS-----IEIHTYGQAF---GEYVNDKNIIPITIS--TCKE 240
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
DB 82 NTRIQLVFNQGLEAEANDICRYDFEVEDISESTIIRGHCCKEVPPIKSKRTNOI 141
      : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 241 YLSFENSIIKDVITE---KLYNAPLAGSVPVYLGSRNENYNIIPADSFIVHEDFNSS 296
      : : : : | | : | : | : | : | : | : | : | : | : | : | : | : | :
DB 142 KITFKSD--DYFVAKPGKRIYISLEDFQPA--AASETNWBS---VTSISGSVSNSS 193
      : : : : | | : | : | : | : | : | : | : | : | : | : | : | : | :
QY 297 -----ELAKYKEVDKNNKLYISYFN--WRKDF---VNLPRF 329
      | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
DB 194 VMDPLIADALDKKIAEFDTVEDL-LKYFNPESQWQEDLENMVLDPPIRY 240

RESULT 13
US-10-127-850A-186
; Sequence 186, Application US/10127850A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330RIC110
; CURRENT APPLICATION NUMBER: US/10/127, 850A
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; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C117
; CURRENT APPLICATION NUMBER: US/10/128,689A
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-128-689A-186

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Query Match      4.9%  Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.51;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

QY 142 TPQSGIEHLFNLTL---TYRRSDIQVYGFIVSTNPFVEFVPSKEKLYCQVVSNNM 197
   ||| : | : | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 24 TPQASISIKALRNANLRDLYRDETIQV-KNGYVQSPRFNSYP-RNLLLTWRHLSQE 81

QY 198 PEHARKYINELSKS-----IEHTYQAF---GEYVNDKNLIPTIS--TCKF 240
   : : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 82 NFRIOVFNQGLEBAENDICRYDFVEVEDISETSTIIRGWCGHKEVPPRIKSRNQT 141

QY 241 YLSFENSIMHDYTE---KLYNAFLAGSVPVYLGPSRENYENIIPADSFIVHEDNSPS 296
   : : | : | | | : | : | : | : | : | : | : | : | : | : | : |
Db 142 KITFKSD--DYFAKPGFKIYISLEDFQPA--AASETWES--VTSISGVSYNSPS 193

QY 297 -----ELAKYLYKVDKNNKLYLSYFN--WRKDF--VNLPRF 329
   | : | : | | | | | | | | | | | | | | | | | | | | | | | |
Db 194 VTDPPTLIADALDKKIAEFTVEDL-LKYFNPEWQEDLENMYLDTPRY 240

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Search completed: November 20, 2002, 16:09:46
 Job time : 11 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 20, 2002, 16:00:48 ; Search time 12.5 Seconds

(without alignments)
845.026 Million cell updates/sec

Title: US-09-744-748-2

Perfect score: 1970
Sequence: 1 MTSTSKGLRPLFIVCIILG.....HYKRHOEYKSVGNLEKMFVN 359

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/6C.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	792	40.2	356	4	US-09-092-315-12 Sequence 12, Appl
2	792	40.2	393	4	US-09-390-131-8 Sequence 8, Appl
3	703	35.7	433	4	US-09-092-315-11 Sequence 11, Appl
4	687.5	34.9	405	1	US-07-914-281-8 Sequence 8, Appl
5	687.5	34.9	405	1	US-08-393-246-8 Sequence 8, Appl
6	687.5	34.9	405	1	US-08-525-058A-8 Sequence 8, Appl
7	687.5	34.9	405	2	US-08-696-731-8 Sequence 8, Appl
8	687.5	34.9	405	4	US-09-042-531-8 Sequence 8, Appl
9	673.5	34.2	405	2	US-08-483-151-4 Sequence 4, Appl
10	667	33.9	299	5	PCT-US91-00899-6 Sequence 6, Appl
11	667	33.9	361	1	US-07-914-281-2 Sequence 2, Appl
12	667	33.9	361	1	US-08-393-246-2 Sequence 2, Appl
13	667	33.9	361	1	US-08-273-411-3 Sequence 3, Appl
14	667	33.9	361	1	US-08-525-058A-2 Sequence 2, Appl
15	667	33.9	361	2	US-08-696-731-2 Sequence 2, Appl
16	667	33.9	361	4	US-09-042-531-2 Sequence 2, Appl
17	667	33.9	361	4	US-09-390-131-6 Sequence 6, Appl
18	667	33.9	361	5	PCT-US91-00899-7 Sequence 7, Appl
19	667	33.9	374	1	US-07-914-281-11 Sequence 11, Appl
20	667	33.9	374	1	US-08-393-246-11 Sequence 11, Appl
21	667	33.9	374	1	US-08-525-058A-11 Sequence 11, Appl
22	667	33.9	374	2	US-08-696-731-11 Sequence 11, Appl
23	667	33.9	374	4	US-09-042-531-11 Sequence 11, Appl
24	662.5	33.6	359	1	US-07-914-281-14 Sequence 14, Appl
25	662.5	33.6	359	1	US-08-393-246-14 Sequence 14, Appl
26	662.5	33.6	359	1	US-08-525-058A-14 Sequence 14, Appl
27	662.5	33.6	359	2	US-08-696-731-14 Sequence 14, Appl

28	662.5	33.6	359	4	US-09-042-531-14 Sequence 14, Appl
29	662.5	33.6	359	4	US-09-092-315-10 Sequence 10, Appl
30	653	33.1	365	4	US-09-092-315-9 Sequence 9, Appl
31	653	33.1	365	4	US-09-390-131-7 Sequence 7, Appl
32	648.5	32.9	357	5	PCT-US91-00899-14 Sequence 14, Appl
33	579	29.4	342	2	US-08-483-151-2 Sequence 2, Appl
34	281.5	14.3	450	4	US-09-390-131-9 Sequence 9, Appl
35	281.5	14.3	451	4	US-09-390-131-3 Sequence 3, Appl
36	147	7.5	454	4	US-09-092-315-8 Sequence 8, Appl
37	142	7.2	372	4	US-09-092-315-13 Sequence 13, Appl
38	142	7.2	440	4	US-09-092-315-3 Sequence 3, Appl
39	142	7.2	464	4	US-09-092-315-1 Sequence 1, Appl
40	142	7.2	478	4	US-09-092-315-7 Sequence 7, Appl
41	131	6.6	486	4	US-09-092-315-2 Sequence 2, Appl
42	129.5	6.6	425	4	US-09-092-315-6 Sequence 6, Appl
43	128.5	6.5	476	4	US-09-092-315-5 Sequence 5, Appl
44	100.5	5.1	1088	2	US-08-742-026-2 Sequence 2, Appl
45	100.5	5.1	1088	2	US-08-742-026-23 Sequence 23, Appl

ALIGNMENTS

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RESULT 1
US-09-092-315-12
; Sequence 12, Application US/09092315
; Patent No. 6399337
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/09/092,315
; CURRENT FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: US 60/048,857
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-09-092-315-12

Query Match      40.2%; Score 792; DB 4; Length 356;
Best Local Similarity 50.3%; Pred. No. 2,6e-68;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

QY 63 EPTILVWVPFGOTPLTSCQAMFNIOGCHLTDRSLYKSHAVLIHHRDIS-WDLTNP 121
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 56 EYVILWMEPFGRPWPRADCRRTYNTTGLSADRGRYGEARVLFHHRDLAHGRQLP 115

QY 122 Q-QARPPQKWMNLESPHTPQKSGIEHFNLTLYRRSDIQVPGYGLTVSTNPFV 179
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 116 RGPPRPQPRQWMMNFESPSHSGRLAGLGFNMWMSYRRSDVVPVGYLXEPSPRP 175

QY 180 FEYPSKEKLVQWVSWNDEHARVRYNLSKSIETHTTGQAFGEYVNDKNIPTISACK 239
   |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 176 FVLPKRSRLVAVWISWNEHARVRYRDLKEHLPIDYVG-ARGMALBGSVYKTVSAVK 234

QY 240 FYLSPFNSHKKVITPKLY-NAFLASVVPVGLSPSENYENTIPASFTIHVEDYNSPSL 298
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 235 FYLAFNSQHTDITLTKLKNNAASAVPVVGLSPRANERFLPADSFTHVDDFSPRL 294

QY 299 AKYLKEVDNNKLYLSYFMWRKDFVNLPRFEMSHACLADHYK-RHOEYKSGNLEKWF 357
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 295 ATYLKFLDKNNKPSYRKYFAMRNKYEYHVSFMDEHICXVCEAVRTGNDLKTQNLAGMF 354

RESULT 2
US-09-390-131-8
; Sequence 8, Application US/09390131
; Patent No. 6461835
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Thu Nov 21 11:41:19 2002

us-09-744-748-2.rai

Page 2

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1  GENERAL INFORMATION:
2  APPLICANT: Abbott Laboratories
3  APPLICANT: Cummings, Richard D.
4  APPLICANT: Nyame, A. Kwame
5  APPLICANT: DeRose-Boyd, Russell A.
6  TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES
7  TITLE OF INVENTION: ENCODING FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMAL
8  TITLE OF INVENTION: INCORPORATING SAME
9  FILE REFERENCE: 6679, US, 01
10 CURRENT APPLICATION NUMBER: US/09/390,131
11 CURRENT FILING DATE: 1999-09-03
12 NUMBER OF SEQ ID NOS: 22
13 SOFTWARE: FastSeq for Windows Version 4.0
14 SEQ ID NO. 8
15 LENGTH: 393
16 TYPE: prt
17 ORGANISM: Caenorhabditis elegans
18 US-09-390-131-8

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[illegible]

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US09-092-315-11
SEQUENCE 11, Application US/09092315
Patent No. 6399337
GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
TITLE OF INVENTION: Alpha-1, 3-FUCOSYLTTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/09/092,315
CURRENT FILING DATE: 1998-06-05
EARLIER APPLICATION NUMBER: US 60/048,857
EARLIER FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 11
LENGTH: 433
TYPE: PRT
ORGANISM: Mus musculus
US-09-092-315-11

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Query Match 35.7% Score 703 DB 4 Length 433;
Best Local Similarity 42.48; Pval 0.14e-59;
Matches 145; Conservative 49; Mismatches 96; Indels 52; Gaps 8

Oy 66 ILVWVPF-----GQTFDLSQAMFNIGSCHLTTRSLYKNAVLHHRDISMDNLNP 121
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Db 92 VLLMPEPRGGREGPKSPDCPSLRINISCRLLDDRAVGAAQAVLHRRDYKELADHP 151
 :::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|:

[illegible]

RESULT 4
 US-07-914-281-8
 Sequence 8, Application us/07914281
 Patent No. 5324663
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
 ADDRESSEE: P. C.
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/914,281
 FILING DATE: 19920720
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Lavalleye, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 405 amino acids
 TYPE: AMINO ACID
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-07-914-281-8

	Query Match	34.9%	Score 687.5	DB 1	Length 405;
	Best Local Similarity	38.5%*	Pred. No. 3.8e-58;		
	Matches 133;	Conservative 59;	Mismatches 110;	Indels 75;	Gaps 14.
OY	15 VCIIICCFMAC--LIIT----	KPINSWTFSPMESASSYLKMKNFSTKTIDYENETIIV	68		
	:	:	:	:	:
Db	28 VCLVLAAGTCTALITACGQGLPLPWV-----RPVGVL	68			

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Qy 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDI-----SW----- 115
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 69 WWPFGGRDSAPRPDPDCLFRFNISGCRLLTDRASVGEAQAVALFHRDRDVKGPDPMPPM 128
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 116 -----DLTNLPQO-----ARPPQKIMWNLESPTTP-QKSGIEHL 151
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 129 GIOAHTAEVDRLVLDYEAAAAAALATSSPPPGQRMWMMNFESPSHSGIRSLASNL 188
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 152 FNLTLTRRSDIOVPGYGLTVSTNPFVEVPS-----KEKLCVWVSMNPEHARV 203
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 189 FNNLTSLRADSDVFPYGYLYPRSHP--GDPPSGLAPPLSRKQGLVAVVYSHWDERQAV 246
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 204 KYNELSKSIEHTYGOAF-GEYVNDKNIPTISACKFYLSFENSIHKDYITEKLY-NAF 261
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 247 RYHQLSQHVTVDFEGRGPGQVPEIGLHTVARKFYLAFFENSQHLDTITEKLRNAL 306
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 262 LAGSVPVYVGPSENEYENTIPADSFTHVEDYNSPELAKYLEVDKNNKLYLSYFWRKD 321
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 307 LAGAVPVYVGPDRANERVPFGAFTHVDSPASSIASYLLFLDRNPVAVYRRYFHMRS 366
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 322 FTVNLPWFESHACLADHVKRHOEY-KSVGNLEKWF 357
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 367 YAVHTISFWDPCRCVCAVQVRAQDRPKSIRNLASF 403
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |

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RESULT 5 US-08-393-246-8

Sequence 8, Application US/08393246
Patent No. 5583900

GENERAL INFORMATION:

APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/393,246
FILING DATE:
CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/220,433
FILING DATE: 30-MAR-1994
APPLICATION NUMBER: US 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-393-246-8

Query Match 34.9%; Score 687.5; DB 1; Length 405;
Best Local Similarity 38.5%; Pred No. 3.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

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Qy 15 VCIILGCFMAC--LLIYI----KPTNSWTFSPMESASVYLKMKNFSTKDTDFNETTILV 68
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 28 VCVLAAGLTCTALITVYACWGQLPLPMA-SPTPS-----RPYGVLL 68
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTTRDSLYNKSNAVLIHHRDI-----SW----- 115
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 69 WWPFGGRDSAPRPDPDCLFRFNISGCRLLTDRASVGEAQAVALFHRDRDVKGPDPMPPM 128
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 116 -----DLTNLPQO-----ARPPQKIMWNLESPTTP-QKSGIEHL 151
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 129 GIOAHTAEVDRLVLDYEAAAAAALATSSPPPGQRMWMMNFESPSHSGIRSLASNL 188
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 152 FNLTLTRRSDIOVPGYGLTVSTNPFVEVPS-----KEKLCVWVSMNPEHARV 203
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 189 FNNLTSLRADSDVFPYGYLYPRSHP--GDPPSGLAPPLSRKQGLVAVVYSHWDERQAV 246
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 204 KYNELSKSIEHTYGOAF-GEYVNDKNIPTISACKFYLSFENSIHKDYITEKLY-NAF 261
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 247 RYHQLSQHVTVDFEGRGPGQVPEIGLHTVARKFYLAFFENSQHLDTITEKLRNAL 306
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 262 LAGSVPVYVGPSENEYENTIPADSFTHVEDYNSPELAKYLEVDKNNKLYLSYFWRKD 321
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 307 LAGAVPVYVGPDRANERVPFGAFTHVDSPASSIASYLLFLDRNPVAVYRRYFHMRS 366
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Qy 322 FTVNLPWFESHACLADHVKRHOEY-KSVGNLEKWF 357
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
Db 367 YAVHTISFWDPCRCVCAVQVRAQDRPKSIRNLASF 403
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |

```

RESULT 6 US-08-525-058A-8

Sequence 8, Application US/08525058A
Patent No. 5770420

GENERAL INFORMATION:

APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,058A
FILING DATE:
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TYPE: amino acid

Thu Nov 21 11:41:19 2002

us-09-744-748-2.rai

Page 4

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;
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-525-058A-8

Query Match          34.9%  Score 687.5; DB 1; Length 405;
Best Local Similarity 38.5%; Pred. No. 3.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIIGCFMAC--ILIIYI-----KPTNSWIFSPMESASSYLKMKMFSTKTDYENETIIV 68
DB 28 VCVLAAGITCTALITYACWGQLPLPWA-SPTPS-----RPVGVLL 68
QY 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
DB 69 WWPFGQDSAPRPPDCLRFNFTSGCRLLDRASYGEAQAVALFHHRDLVKGPPDPMPW 128
QY 116 -----DLTNLPOO-----ARPPQKWTMMLESTPTNP-OKSGIEHL 151
DB 129 GIOAHTAEVDRLVDYEEAAMAAALATSSPRPGQRMWMMFESPSHSGLSLASNL 188
QY 152 FNLITFYRSDIDIOVPGFLTVSTNPVEFVPS-----KEKLYCWVYSNNPEHARY 203
DB 189 FNLITFYRSDIDVFPYGYLPRSH--GDPFSGIAPPLSRKQGLVAVVSHWDERQARY 246
QY 204 KYNELSKSIEIHTYGAQF-GEVYNDKNLPTISACKFYLSFENSIIHKDYITEKLY-NAF 261
DB 247 RYHQLSOHVTVDFGRGPGQGPVPEIGLHTVARKFYIAFENSQHLDTITEKLRNAL 306
QY 262 LAGVAPVVLGSPRENYNYIPADSFTHVEDYNSPSELAKYKEVDKNNKLYLSTYFWRKD 321
DB 307 LAGVAPVVLGDRANRYERFVRGAFIHVDDFPSASSLASLTLFLDRNPAYRYRHFHRRS 366
QY 322 FTVNLPRFWEASHCLADHYKHOEY-KSYGNLEKMF 357
DB 367 YAVHITSFWEDEPMCRVCOAQAQRAGDRPKSTRNLASWF 403

RESULT 7
US-08-696-731-8
; Sequence 8, Application US/08696731
; Patent No. 5955347
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; NUMBER OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; CORRESPONDENCE ADDRESSES: 14
; ADDRESSER: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 14-AUG-1996
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/393,246
; FILING DATE:
; APPLICATION NUMBER:
; FILING DATE:
; APPLICATION NUMBER: US 08/220,433
; FILING DATE: 30-MAR-1994
; APPLICATION NUMBER: US 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
```

```

;
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-696-731-8

Query Match          34.9%  Score 687.5; DB 2; Length 405;
Best Local Similarity 38.5%; Pred. No. 3.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIIGCFMAC--ILIIYI-----KPTNSWIFSPMESASSYLKMKMFSTKTDYENETIIV 68
DB 28 VCVLAAGITCTALITYACWGQLPLPWA-SPTPS-----RPVGVLL 68
QY 69 WWPFGQTFDL-----TSCQAMFNIOGCHLTDRSLYKSHAVLIHHRDI-----SW---- 115
DB 69 WWPFGQDSAPRPPDCLRFNFTSGCRLLDRASYGEAQAVALFHHRDLVKGPPDPMPW 128
QY 116 -----DLTNLPOO-----ARPPQKWTMMLESTPTNP-OKSGIEHL 151
DB 129 GIOAHTAEVDRLVDYEEAAMAAALATSSPRPGQRMWMMFESPSHSGLSLASNL 188
QY 152 FNLITFYRSDIDIOVPGFLTVSTNPVEFVPS-----KEKLYCWVYSNNPEHARY 203
DB 189 FNLITFYRSDIDVFPYGYLPRSH--GDPFSGIAPPLSRKQGLVAVVSHWDERQARY 246
QY 204 KYNELSKSIEIHTYGAQF-GEVYNDKNLPTISACKFYLSFENSIIHKDYITEKLY-NAF 261
DB 247 RYHQLSOHVTVDFGRGPGQGPVPEIGLHTVARKFYIAFENSQHLDTITEKLRNAL 306
QY 262 LAGVAPVVLGSPRENYNYIPADSFTHVEDYNSPSELAKYKEVDKNNKLYLSTYFWRKD 321
DB 307 LAGVAPVVLGDRANRYERFVRGAFIHVDDFPSASSLASLTLFLDRNPAYRYRHFHRRS 366
QY 322 FTVNLPRFWEASHCLADHYKHOEY-KSYGNLEKMF 357
DB 367 YAVHITSFWEDEPMCRVCOAQAQRAGDRPKSTRNLASWF 403

RESULT 8
US-09-042-531-8
; Sequence 8, Application US/09042531
; Patent No. 6268193
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; NUMBER OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; CORRESPONDENCE ADDRESSES: 14
; ADDRESSER: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
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: APPLICATION NUMBER: US/09/042,531
: FILING DATE:
:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/393,246
: FILING DATE:
: APPLICATION NUMBER: US 08/220,433
: FILING DATE: 30-MAR-1994
: APPLICATION NUMBER: US 07/914,281
: FILING DATE: 20-JUL-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Lavalleye, Jean-Paul M. P.
: REGISTRATION NUMBER: 31,451
: REFERENCE/DOCKET NUMBER: 2363-060-55
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703)521-4500
: TELEFAX: (703)486-2347
: TELEX: 248855 OPAT UR
: INFORMATION FOR SEQ ID NO: 8:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 405 amino acids
: TYPE: amino acid
: TOPOLOGY: unknown
: MOLECULE TYPE: protein
: US-09-042-531-8

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Query Match	34.9%	Score 687.5;	DB 4;	Length 405;
Best Local Similarity	38.5%;	Pred. NO. 3.8e-58;		
Matches 153; Conservative	59;	Mismatches 110;	Indels 75;	Gaps 14;

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QY      15 VCIILGCMAC--LLIYI-----KPNNSIFSMESASSYLKMKNFESTRTDYFENETIYL      68
Db      28 VCVLAAGLTCTALITTYACWGLPPLPMA-SPTPS-----RPGVALL      68
QY      69 WMPGQGFDDL-----TSCQAMENIIOGCHLTTRSLYLNKSHAVLIHHRDI-----SW---- 115
Db      69 WMEPEGRDASAPRPDCLRENISGCRILTDRASGEAVALFHHRDLVKGRPDMRPWM      128
QY      116 -----DLNLPQO-----ARPPQKIMMNLSPYHTP--QKSGIEHL 151
Db      129 GIOAHTAEVLDRLVDYEEAAAAAALATLSRPGRPGQKRWMMNFESPSSHPGLSLASNL 188
QY      152 FNLTLTYERDSIOQVPEGLYSTNPFVEFVS-----KEKLYCWVYSWMNPEHAV 203
Db      189 FNMWLTSTYADSDVFPYGYLYPRSHR--GDPPSGIAPLPSRQOGLVAMVSHMDERQAV 246
QY      204 KYNELSKSIEIHTYGAQF--GEYVDNKLMLPIISAKCFEYSPENSIIHKDYIIEKLY--NAF 261
Db      247 KYHQLOSHVYDVYDVGRCGPQGPVEIGLHTHYAKKFTYLAENSOHLDYITEKILMRNAL 306
QY      262 LAGSVVAVLGSRENYENYIPADSFIIHVEDYDYNPSBELAKYKLEVDKNNKLYLSTYNNRKD 321
Db      307 LAGAVPVYIGPFRANYERFVPYGCAGFIHDDPFSSASLSYLLFLDRNPAVYRRTYFHWRS 366
QY      322 FTVNLPREWFSAACLACDHYKRRHDEY--KSYGULENWF 357
Db      367 YAVHTISFWDEPWCYCAVOYRAGRPSPSIRNLASWF 403

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RESULT 9
US-08-483-151-4
: Sequence 4, Application US/08483151
: Patent No. 5858752
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: GENERAL INFORMATION:
: APPLICANT: Seed, Brian
: APPLICANT: Holgersson, Jan
: TITLE OF INVENTION: FUCOSYLTRANSFERASE GENES AND USES THEREOF
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Fish & Richardson P.C.
: STREET: 225 Franklin Street
: CITY: Boston
: STATE: MA
:

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1 COUNTRY: USA
2 ZIP: 02110-2804
3
4 COMPUTER READABLE FORM:
5     MEDIUM TYPE: floppy disk
6     COMPUTER: IBM PC compatible
7     OPERATING SYSTEM: PC-DOS/MS-DOS
8     SOFTWARE: Patentn Release #1.0, Version #1.30
9
10    CURRENT APPLICATION DATA:
11        APPLICATION NUMBER: US/08/483,151
12        FILING DATE: 07-JUN-1995
13        CLASSIFICATION: 530
14        ATTORNEY/AGENT INFORMATION:
15            NAME: lech, karen F.
16            REGISTRATION NUMBER: 35,238
17            REFERENCE/DOCKET NUMBER: 00786/278001
18
19    TELECOMMUNICATION INFORMATION:
20        TELEPHONE: 617/542-5070
21        TELEFAX: 617/542-8906
22        TELEX: 200154
23
24    INFORMATION FOR SEQ ID NO: 4:
25        SEQUENCE CHARACTERISTICS:
26            LENGTH: 405 amino acids
27            TYPE: amino acid
28            STRANDEDNESS: not relevant
29            TOPOLOGY: linear
30
31        MOLECULE TYPE: protein
32
33    US-08-483-151-4

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Query Match	34.2%	Score 673.5	DB 2:	Length 405;
Best Local Similarity	37.8%	Pred. No. 8.6e-57;		
Matches 150;	Conservative 61;	Mismatches 111;	Indels 75;	Gaps 14;

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0Y      15  VCIILGCMAC--LLIYI-----KPRNSIIFSPMEASAVLKKMKNEFSTYDFMETITLV  68
Db      28  VCVLAAGLITCALITTCMGQLRPLRPA--SPTRP-----KPYGVL  68
0Y      69  WVWPFQGFEDL---TSCQAFNIQGCHLTDRSLYNKSHAVLIHNRDI-----SW----  115
Db      69  WMEPEGGAISAPRPDPDRLFRFNIGCKILMDRASYSQAQVLIHFHNRDVGKPPDMPRW  128
0Y      116  -----DLTNLPQ-----ARPEQQWIMWNLESPIHTP--QKSGIHL  151
Db      129  GIQAHTAEVVDLRYLDYEEAAAALATSPRPRAKWMWNFESPSSHGLSLASNL  188
0Y      152  FNLTITRRRSDIOYVGFILTVSTNPFVEEVS-----KEKLYCVSNMNDENHAY  203
Db      189  FNMWITSTYADSDVYVPIYILYKPRSRP--GDRPSSGLAPLSKQGLVAVWVYHMDRQARV  246
0Y      204  KYVNELSKSIEIHYYQAF--GEYVNDKMLPTISACKYLFSPENSIMKDYITEKLY--NAF  261
Db      247  RYHQHLSQHVYDVGVGPRQPVBEIGLLHTYVAKRYKYLAFENSOHNDYITEKIMRWAL  306
0Y      262  LAGSPVYVLGSRREYEWYIPADSTIHWEDYNSBELAKYIKEYDKANKLYLSTFNNMKD  321
Db      307  LAGAVPVYLGDRANYERFEVPGAFIHWDEPPSSIASLYLLFLDRNPVAVRYRFFHWRRS  366
0Y      322  FTVNLRFWESHACIADHYKRRHOEY--KSYNLEKWF  357
Db      367  YAVHTTSFWDEPWCYCAQVORAGDRPKSIRNLWSWF  403

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1 RESULT 10
2 PCT-US91-00899-6
3 : Sequence 6, Application PC/TUS9100899
4 :
5 : GENERAL INFORMATION:
6 :
7 : APPLICANT: Lowe, John B.
8 :
9 : TITLE OF INVENTION: Method and Products For the Synthesis of
10 : TITLE OF INVENTION: Oligosaccharide Structures on Glycoproteins, Glycolip
11 : TITLE OF INVENTION: or as Free Molecules, and For the Isolation of Cloned
12 : TITLE OF INVENTION: Genetic Sequences That Determine These Structur
13 : NUMBER OF SEQUENCES: 16
14 :
15 : CORRESPONDENCE ADDRESS:
16 :
17 : ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,

```

Thu Nov 21 11:41:19 2002

us-09-744-748-2.rai

Page 6

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; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Suite 400
; CITY: Arlington
; STATE: Virginia
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US91/00899
; FILING DATE: 19910214
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye Ph.D., Jean-Paul
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-021-55 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-5940
; TELEFAX: (703)486-2347
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 299 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: YES
; FRAGMENT TYPE: C-terminal
; ORIGINAL SOURCE: C-terminal
; ORGANISM: Homo sapiens
; TISSUE TYPE: Blood
; CELL LINE: A431
; PCT-US91-00899-6

Query Match
Best Local Similarity 33.9%; Score 667; DB 5; Length 299;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

Db 66 ILVWVPGFGTFLTSCQAMF-NIOGCHLTDRSLYKNSHAVLIHHRDISMDL-----TN 119
120 LPQARPPFOKMWIMNLESPTHTPOKSGIEHLFNLTLTYRSDSDIOVPGFLTV-STNPF 178
59 LPSPRPOGQRMWIMNLESPTHTPOKSGIEHLFNLTLTYRSDSDIOVPGFLTV-STNPF 118
179 --VEFVPSKREKLVQWVVMNPNPEHARVKKYNNELSKSIEHTYGAQGEYVNDKLIPTIS 236
119 HPLNLISAKTELAVAMVSNMKNPDSARVRYOSLOAHLKVDYGRSH-KPLPKGTMMETLS 177
237 ACKEYLSFENSIRKDYITEKLY-NAFLAGSVPVYLGSRRENYEYIPADSFIHVEDYNSP 295
178 RYKFEYLAPENSLHPDYITEKLMRNALAMAVVYVYLGPSRNSREYELPPDAFIHVDPOSP 237
296 SELAKYIKENVDKNNKLYLSYFNMRKDFTVNLP--FWESHACLADHYKHOEYKSGVNL 353
238 KDLARYLOELDKDHARYLSYFRMRRETLR---PRFSWALDFCKACWKLOESRYQVRSI 294
354 EKWF 357
295 AAMF 298
Db 295 AAMF 298

RESULT 11
US-07-914-281-2
; Sequence 2, Application US/07914281
; Patent No. 5324663
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
```

```

; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTU
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESS: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/914,281
; FILING DATE: 19920720
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-07-914-281-2

Query Match
Best Local Similarity 33.9%; Score 667; DB 1; Length 361;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

Db 66 ILVWVPGFGTFLTSCQAMF-NIOGCHLTDRSLYKNSHAVLIHHRDISMDL-----TN 119
65 ILMTWPHFIPVALSRCESENVPGTADCHITADRKRYVPOADTVIVHH---WDIMSNPKSR 120
120 LPQARPPFOKMWIMNLESPTHTPOKSGIEHLFNLTLTYRSDSDIOVPGFLTV-STNPF 178
121 LPSPRPOGQRMWIMNLESPTHTPOKSGIEHLFNLTLTYRSDSDIOVPGFLTV-STNPF 160
179 --VEFVPSKREKLVQWVVMNPNPEHARVKKYNNELSKSIEHTYGAQGEYVNDKLIPTIS 236
181 HPLNLISAKTELAVAMVSNMKNPDSARVRYOSLOAHLKVDYGRSH-KPLPKGTMMETLS 239
237 ACKEYLSFENSIRKDYITEKLY-NAFLAGSVPVYLGSRRENYEYIPADSFIHVEDYNSP 295
240 RYKFEYLAPENSLHPDYITEKLMRNALAMAVVYVYLGPSRNSREYELPPDAFIHVDPOSP 299
296 SELAKYIKENVDKNNKLYLSYFNMRKDFTVNLP--FWESHACLADHYKHOEYKSGVNL 353
300 KDLARYLOELDKDHARYLSYFRMRRETLR---PRFSWALDFCKACWKLOESRYQVRSI 356
354 EKWF 357
357 AAMF 360
Db 357 AAMF 360

RESULT 12
US-08-393-246-2
; Sequence 2, Application US/08393246
; Patent No. 5595900
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; TITLE OF INVENTION: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
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; TITLE OF INVENTION: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; TITLE OF INVENTION: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCT
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/393,246
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/220,433
; FILING DATE: 30-MAR-1994
; APPLICATION NUMBER: US 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-393-246-2

Query Match          33.9%; Score 667; DB 1; Length 361;
Best Local Similarity 43.1%; Pred. No. 3.1e-56;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

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DB 65 ILLWVWPFHPIVALSRCSMVPGTADCHITADRKVYPQADTVIVHH---WDIMSNPKSR 120
QY 120 LPOQARPPQKMTWMLLESPTHTPKSGIEHLFNLTLTYRRSDIOVPGFLTV-STNPF 178
DB 121 LPPSPRPQGRMTWFLLEPPPCQHLLEADRFNLTMTSTRSDITTPYGLWLEPMSGQPA 180
QY 179 --VFEEVPSKEKLVCWVSNMNPENHARVKYNYNELSKSIEIHTYGOAGGEVYVNDKNLIPITS 236
DB 181 HPLNLNLSAKTELAVAMVSNMKNPDSARVRYQSLQALHKVDYGRSH-KPLPKGTMMETLS 239
QY 237 ACKFYLSFENSJHKDYITTEKLY-NAFLAGSVPVYGLSPSENENTENTIPADSFHVEDYNSP 295
DB 240 RYKFYLAFENSJHPDYITTEKLYLRNMLEAWAVPVYGLSPSRNSYERFLPPDAFIHVDFOQSP 299
QY 296 SEIATKLKLVNDKNNKLYLSYFMWRKDFTVNLP--FWESHACIACDVKRHOEYKSGVNL 353
DB 300 KDLARLQGLDHDHARYLSYFRNRETLR---FRSPMALDFCKACWKLDQESRYQIVRSI 356
QY 354 EKWF 357
DB 357 AAMF 360

RESULT 13
US-08-273-411-3
; Sequence 3, Application US/08273411
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; Patent No. 5625124
; GENERAL INFORMATION:
; APPLICANT: Falk, Per
; TITLE OF INVENTION: Animal Model for Gastro-Intestinal
; TITLE OF INVENTION: Disease
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Patrea L. Pabst
; STREET: 1100 Peachtree Street, Suite 2800
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30309-4530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/273,411
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 815-6558
; TELEFAX: (404) 815-6555
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: 1..361
; OTHER INFORMATION: /note="GDP-L-fucose:beta-D-N-acetylglucosaminide-3,4-alp
; PUBLICATION INFORMATION:
; AUTHORS: Kukowska-Latallo, et al.
; JOURNAL: Genes & Development
; VOLUME: 4
; PAGES: 1288-1303
; DATE: 1990
; RELEVANT RESIDUES IN SEQ ID NO: 3: FROM 1 TO 361
; US-08-273-411-3

Query Match          33.9%; Score 667; DB 1; Length 361;
Best Local Similarity 43.1%; Pred. No. 3.1e-56;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

QY 66 ILVWVWPFQGTDLTSCQAMF-NIOGCHLTDRSLYKSHAVLIHHRDISMDL-----TN 119
DB 65 ILLWVWPFHPIVALSRCSMVPGTADCHITADRKVYPQADTVIVHH---WDIMSNPKSR 120
QY 120 LPOQARPPQKMTWMLLESPTHTPKSGIEHLFNLTLTYRRSDIOVPGFLTV-STNPF 178
DB 121 LPPSPRPQGRMTWFLLEPPPCQHLLEADRFNLTMTSTRSDITTPYGLWLEPMSGQPA 180
QY 179 --VFEEVPSKEKLVCWVSNMNPENHARVKYNYNELSKSIEIHTYGOAGGEVYVNDKNLIPITS 236
DB 181 HPLNLNLSAKTELAVAMVSNMKNPDSARVRYQSLQALHKVDYGRSH-KPLPKGTMMETLS 239
QY 237 ACKFYLSFENSJHKDYITTEKLY-NAFLAGSVPVYGLSPSENENTENTIPADSFHVEDYNSP 295
DB 240 RYKFYLAFENSJHPDYITTEKLYLRNMLEAWAVPVYGLSPSRNSYERFLPPDAFIHVDFOQSP 299
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GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 16:03:09 ; Search time 8.5 Seconds

(without alignments)
661.468 Million cell updates/sec

Title: US-09-744-748-2

Perfect score: 1970

Sequence: 1 MTSTSKGILRPFILVCIILG.....HKRHOEYKSYGNLEKMFVN 359

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 100480 seqs, 15661496 residues

Total number of hits satisfying chosen parameters: 100480

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	792	40.2	356	9	US-10-120-319-12
2	769.5	39.1	355	10	US-09-733-524-8
3	703	35.7	433	9	US-10-120-319-11
4	687.5	34.9	405	10	US-09-863-475A-8
5	675.5	34.3	432	10	US-09-733-524-7
6	667	33.9	361	10	US-09-863-475A-2
7	667	33.9	374	10	US-09-863-475A-11
8	662.5	33.6	359	9	US-10-120-319-10
9	662.5	33.6	359	10	US-09-863-475A-14
10	659	33.5	358	10	US-09-733-524-6
11	653	33.1	365	9	US-10-120-319-9
12	608.5	30.9	364	10	US-09-733-524-5
13	579	29.4	393	10	US-09-784-077-2
14	267	13.6	406	10	US-09-784-077-284
15	147	7.5	454	10	US-10-120-319-8
16	147	7.5	454	10	US-09-733-524-18
17	145.5	7.4	479	10	US-09-733-524-17
18	142	7.2	372	9	US-10-120-319-13
19	142	7.2	440	9	US-10-120-319-3

20	142	7.2	440	10	US-09-733-524-3	Sequence 3, Appl1
21	142	7.2	464	9	US-10-120-319-1	Sequence 1, Appl1
22	142	7.2	478	9	US-10-120-319-7	Sequence 7, Appl1
23	142	7.2	501	10	US-09-733-524-1	Sequence 1, Appl1
24	131	6.6	485	10	US-09-733-524-2	Sequence 2, Appl1
25	131	6.6	486	9	US-10-120-319-2	Sequence 2, Appl1
26	129.5	6.6	424	10	US-09-733-524-16	Sequence 16, Appl1
27	129.5	6.6	425	9	US-10-120-319-6	Sequence 6, Appl1
28	128.5	6.5	476	9	US-10-120-319-5	Sequence 5, Appl1
29	128.5	6.5	476	10	US-09-733-524-15	Sequence 15, Appl1
30	99.5	5.1	760	10	US-09-265-606-2	Sequence 2, Appl1
31	98.5	5.0	2000	12	US-10-010-901-29	Sequence 29, Appl1
32	95.5	4.8	370	9	US-10-086-623-8	Sequence 8, Appl1
33	95.5	4.8	370	10	US-09-823-033-5	Sequence 5, Appl1
34	95.5	4.8	370	10	US-09-808-972-2	Sequence 2, Appl1
35	95.5	4.8	370	10	US-09-915-582-56	Sequence 56, Appl1
36	95	4.8	1480	9	US-09-568-756-2	Sequence 2, Appl1
37	92.5	4.7	433	10	US-09-784-911-8	Sequence 8, Appl1
38	91.5	4.6	517	10	US-09-815-242-5722	Sequence 5722, Ap
39	91.5	4.6	517	10	US-09-815-242-12650	Sequence 12650, A
40	89.5	4.5	370	10	US-09-915-582-74	Sequence 74, Appl
41	89	4.5	1086	10	US-09-924-154-15	Sequence 15, Appl
42	87.5	4.4	409	10	US-09-761-962-27	Sequence 27, Appl
43	86.5	4.4	258	9	US-09-731-001-4	Sequence 4, Appl1
44	86.5	4.4	382	10	US-09-993-844-4	Sequence 4, Appl1
45	86.5	4.4	598	9	US-09-731-001-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1

US-10-120-319-12

Sequence 12, Application US/10120319

Patent No. US2002016479A1

GENERAL INFORMATION:

APPLICANT: Taylor, Diane E.

TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE

FILE REFERENCE: 07254/049001

CURRENT APPLICATION NUMBER: US/10/120, 319

PRIOR FILING DATE: 2002-04-09

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092, 315

PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048, 857

PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06

NUMBER OF SEQ ID NOS: 22

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 12

LENGTH: 356

TYPE: PRT

ORGANISM: Gallus gallus

US-10-120-319-12

Query Match 40.2%, Score 792; DB 9; Length 356;

Best Local Similarity 50.3%; Pred. No. 4.5e-61;

Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

QY 63 ETTIIVWTPFGQITDLSQAMENIQGCHLTTRSLYNKSHAVLIHRRDIS-WDLTNP 121

DB 56 EYTVLLMEPEFGRRPADCCRRYNTGCLLSADRGYGEAAVLFHRRDLALHGRCLP 115

QY 122 Q-QARPPFOKIMWNLSPTHTPKSGIHEHFNLTLYRRSDIQVYGFITSTNPFV 179

DB 116 RPPPRPPRQKRWMMNFSSPSHSPGLRGLAGLFNMTWSTRSDVFEVGYLPEPPSPRP 175

QY 180 FEVPSKEKLVVSNWNPDEHARVYKYNELSKSIHTHYGAFCGYVNDKNLIPTISACK 239

DB 176 FVLPRKSLVAMVSNWMEHARVYRQLKEHLFDIVYG-ARGVALLGGSVYKVSAYK 234

QY 240 FYLSFENSIDHYITEKLY-NAFLAGSVPVYLGSRREYENTIPADSTIHYEDYNPSPEL 298

DB 235 FYLAFFENSOHDYITEKLMKNAFAASAVPVYLGSRREYERFIPADSFTHVDPEPSPRL 294

Thu Nov 21 11:41:20 2002

us-09-744-748-2.rapb

Page 2

Qy 299 AKYAEVDKNNKLYLSYFNWRKDFVNI¹PRFWESHAC²LACD³HYK-RHOEYISVGNLEKMF 35

Db 295 ATYELKFLDKNNPSYRRYFAWRNNKYEVH¹YTSFWIDHEYCKYCEAVRTAGNQLKTYQN²LGW³ 35

RESULT 2

US-09-733-524-8
; Sequence 8, Application US/09733524
; Patent No. US20020068347A1

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1  APPLICANT: The Governors of the University of Alberta, a Canada Corporation
2
3  APPLICANT: Taylor, Diane E.
4
5  APPLICANT: Ge, Zhongming
6
7  TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
8
9  TITLE OF INVENTION: FUCOSYLTRANSFERSES AND EXPRESSION SYSTEMS FOR MAKING AND
10
11 TITLE OF INVENTION: EXPRESSING THEM
12
13 FILE REFERENCE: 07254/049002
14
15 CURRENT APPLICATION NUMBER: US/09/733,524
16
17 CURRENT FILING DATE: 2000-12-14
18
19 PRIOR APPLICATION NUMBER: 09/092,315
20
21 PRIOR FILING DATE: 1998-06-05
22
23 PRIOR APPLICATION NUMBER: 60/048,857
24
25 PRIOR FILING DATE: 1997-06-06
26
27 NUMBER OF SEQ ID NOS: 20
28
29 SOFTWARE: FastSeq for Windows Version 4.0
30
31 SEQ ID NO 8
32
33 LENGTH: 355
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Query Match	39.18;	Score 769.5;	DB 10;	Length 355;
Best Local Similarity	49.58;	Pred. No. 3.9e-59;		
Matches 148; Conservative	51;	Mismatches 95;	Indels 5;	Gaps 5

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RESULT :

US-10-120-319-11
; Sequence 11, Application US/10120319
; Patent No. US20020164749A1

1. APPLICANT: Taylor, Diane E.
 2. APPLICANT: GE, Zhongming
 3. TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
 4. FILE REFERENCE: 07254/049001
 5. CURRENT APPLICATION NUMBER: US/10/120,319
 6. CURRENT FILING DATE: 2002-04-09
 7. PRIOR APPLICATION NUMBERS: EARLIER APPLICATION NUMBER: 09/092,315

: PRIOR FILING DATE: EARLIER FILING DATE: 1996-06-05
 : PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
 : PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
 : NUMBER OF SEQ ID NOS: 22
 : SOFTWARE: FASTSEQ for Windows Version 3.0

Query Match 35.7%; Score 703; DB 9; Length 433;

[illegible]

RESULT 4

US-09-863-475A-8
: Sequence 8, Application US/09863475A
: Patent No. US20020102688A1

1 AFFILIATION: LOMÉ, JOHN B.
 2
 3 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 4 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 5 GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 6 OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
 7
 8 NUMBER OF SEQUENCES: 14
 9
 10 CORRESPONDENCE ADDRESS:

ADDRESS: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT
P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.

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; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/914,281
 ; FILING DATE: 20-JUL-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Lavalleye, Jean-Paul M. P


```

; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-863-475A-8

Query Match      34.9%; Score 687.5; DB 10; Length 405;
Best Local Similarity 38.5%; Pred. No. 5,6e-52;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI---KPTNSWIFSPMESASVYLKMKMFSTKDYFNETIIV 68
DB 28 VCIILAAAGLTCALITVYACMGQLPLPWA-SPTPS-----RPYGVLL 68
QY 69 WWPFGQTFDL---TSCAMENIQGCHLTTRSLYNKSHAVLIHHRDI----SW---- 115
DB 69 WWPFGQTFDL---TSCAMENIQGCHLTTRSLYNKSHAVLIHHRDI----SW---- 115
QY 116 -----DLTNLPOQ-----ARPFQKIMWMLNESPHTHP-OKSGIEHL 151
DB 129 GLOAHAEVYDLRLVDEEAAAAAALATSSPPPGQRMWMMFESSHSPGLRSLASML 188
QY 152 FLLTLRRSDIOVPGFLTVSTNPFVEVPS-----KEKLVCMVYVSNMNPENHAY 203
DB 189 FMTLTSLRADSLVYFVYGLYPRSHR--GDPPSGLAPLRSKQGLVAVWYSHHDERQARY 246
QY 204 KYNNLSKSIETHTYGQAF-GEVYNDKMLIPTISACKFYLSENSIHKDYITEKLY-NAF 261
DB 247 RYHQLSQHVTVDVFGRGQPVPEIGLHTVARYKFYLAFFENSQHLDIYTEKILRNAL 306
QY 262 LAGSVVYVIGSPRENEYNIIPADSEFIHVEDYNSPSELAKYLEVDKNNKLXSYFWMRD 321
DB 307 LAGAVVYVIGSPRENEYNIIPADSEFIHVEDYNSPSELAKYLEVDKNNKLXSYFWMRD 366
QY 322 FTVNLPRFWEASHACLADHYKRRHGX-KSVGNLEKMF 357
DB 367 YAVHTSPWDEPWCRCQAVQRAQGRPKSIRNLASWF 403

RESULT 5
US-09-733-524-7
; Sequence 7, Application US/09733524
; Patent No. US20020068347A1
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta, a Canada Corporation
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM
; FILE REFERENCE: 07254/049002
; CURRENT APPLICATION NUMBER: US/09/733,524
; PRIOR FILING DATE: 2000-12-14
; PRIOR APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 432
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:

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; NAME/KEY: PEPTIDE
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori fucosyltransferase - Mfuct4
US-09-733-524-7

Query Match      34.3%; Score 675.5; DB 10; Length 432;
Best Local Similarity 41.8%; Pred. No. 6,6e-51;
Matches 143; Conservative 49; Mismatches 97; Indels 53; Gaps 9;

QY 66 ILVWMPF-----GQTFDLSCAMENIQGCHLTTRSLYNKSHAVLIHHRDLSWDLTNLP 121
DB 92 VLLWMPFGRGQVPRSPDCSLRFNISCRLTDRAAVGECAVLFHHRDLVKEHLHDP 151
QY 122 QQ-----ARPFQKIMWMLNESPHTHPQKSG 147
DB 152 PRGGAERTDKALVLFVDDQCATVLTGKALETVSSRPPGQRMWMMFESSHPTGLNG 211
QY 148 I-EHLNLTLYRRSDIOVPGFLTVSTNPFVEVPS-----KEKLVCMVYVSNMNP 198
DB 212 LKADLFNMTLSYRSDVDFVPGFLYRSRDP--TEQPSGLPQLARKGLVAVWYVSNMNE 269
QY 199 EHARVYVYVIELSIEIHTYGQAF-GEVYNDKMLIPTISACKFYLSENSIHKDYITEKLY 257
DB 270 HQARVYVYVIELSIEIHTYGQAF-GEVYNDKMLIPTISACKFYLSENSIHKDYITEKLY 329
QY 258 Y-NAFLAGSVVYVIGSPRENEYNIIPADSEFIHVEDYNSPSELAKYLEVDKNNKLXSYF 316
DB 330 WRNAPLAGAVPVYLG--DRANERFVPRGAFIHVDPPNANSLAAYILFDNRVAVYRRYF 388
QY 317 NMRKDFVNLPRFWEASHACLADHYKRRH-OEYKSVGNLEKMF 357
DB 389 RMRSPFAVHTSPWDEPWCRCQAVQTSQDQPKSTENLDMWF 430

RESULT 6
US-09-863-475A-2
; Sequence 2, Application US/09863475A
; Patent No. US20020102688A1
; GENERAL INFORMATION:
; APPLICANT: LOWE, JOHN B.
; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCT
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLION, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/863,475A
; FILING DATE: 24-May-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,281
; FILING DATE: 20-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Lavalleye, Jean-Paul M. P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-060-55
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)521-4500
; TELEFAX: (703)486-2347
; TELEX: 248855 OPAT UR

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Thu Nov 21 11:41:20 2002

us-09-744-748-2.rapb

Page 4

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-863-475A-2

Query Match 33.9%; Score 667; DB 10; Length 361;
Best Local Similarity 43.1%; Pred. No. 2,8e-50;
Matches 131; Conservative 55; Mismatches 98; Indels 20; Gaps 9;

QY ILVWVWPFQGTFDLTSCQAMF-NIOGCHLTTPDRSLYNSKSHAVLIHHRDISMDL-----TN 119
DB ILVWVWPFHPIPVALLSRCESEVPGTADCHITADRKVYQPADVIYVHH-----WDIMSNPKSR 120
QY LPOQAPPPQKMTAMNLESPTHPQKSGIEHLFNLITLRSDIQVYGLTY-STNPF 178
DB LPPSPRQGGQKMTAMNLESPTHPQKSGIEHLFNLITLRSDIQVYGLTY-STNPF 180
QY 179 --VEVDSKREKLVGVVSNMNEPHARKYNNELSKSIEIHTYGAQFGEYVNDKMLIPTIS 236
DB 181 HPPNLSKRTKELVAMAVSNMKNPDSARVRYQSLQAHKLVYGRSH-KPLRGTMMETLS 239
QY 237 ACKEYLSFENSHKDYITEKLY-NAFLAGSVPVVLGSPRENEYIPADSEIHVEDYNSP 295
DB 240 RKKEFLAENSILHPDYITEKLMRNALAEAMAVPVVLGSPRSNRYERFLPDADFHVDDFQSP 299
QY 296 SELAKYKLVKNNKLYLSFYNNRKDETVNLPR--FMESHACIADCHYKROEKKSVGNL 353
DB 300 KDLAVYGLDELKDHARTLSYFRMRETLR--PRFSMALDFCKACWKIQDSRRQTVASII 356
QY 354 EKMF 357
DB 357 AAMF 360

RESULT 7
US-09-863-475A-11
Sequence 11, Application US/09863475A
Patent No. US20020102688A1
GENERAL INFORMATION:
APPLICANT: LOWE, JOHN B.
TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: ORION, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/863,475A
FILING DATE: 24-May-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55

TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 374 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-863-475A-11

Query Match 33.9%; Score 667; DB 10; Length 374;
Best Local Similarity 43.7%; Pred. No. 3e-50;
Matches 131; Conservative 58; Mismatches 99; Indels 12; Gaps 8;

QY ILVWVWPFQGTFDLTSCQAMF-NIOGCHLTTPDRSLYNSKSHAVLIHHRDISMD-LTNLPQO 123
DB ILVWVWPFHPIPVALLSRCESEVPGTADCHITADRKVYQPADVIYVHHDMYNSANLPP 137
QY 124 ARPPQKMTAMNLESPTHPQKSGIEHLFNLITLRSDIQVYGLTY-STNPF-VF 180
DB 138 TRPQGGQKMTAMNLESPTHPQKSGIEHLFNLITLRSDIQVYGLTY-STNPF-VF 197
QY 181 EVPSKREKLVGVVSNMNEPHARKYNNELSKSIEIHTYGAQFGEYVNDKMLIPTISACK 240
DB 198 NLSAKRTKELVAMAVSNMKNPDSARVRYQSLQAHKLVYGRSH-KPLRGTMMETLSRYK 256
QY 241 YLSFENSHKDYITEKLY-NAFLAGSVPVVLGSPRENEYIPADSEIHVEDYNSPSELA 299
DB 257 YLAFENSHKDYITEKLMRNALAEAMAVPVVLGSPRSNRYERFLPDADFHVDDFQSPDLA 316
QY 300 KYLKEVDKNNKLYLSFYNNRKDETVNLPR--FMESHACIADCHYKROEKKSVGNL 357
DB 317 RYLOELDKDHARTLSYFRMRETLR--PRFSMALDFCKACWKIQDSRRQTVASIAWF 373

RESULT 8
US-10-120-319-10
Sequence 10, Application US/10120319
Patent No. US20020164749A1
GENERAL INFORMATION:
APPLICANT: Taylor, Diane E.
TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
FILE REFERENCE: 07254/049001
CURRENT APPLICATION NUMBER: US/10/120,319
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 359
TYPE: PRT
ORGANISM: Homo sapiens
US-10-120-319-10

Query Match 33.6%; Score 662.5; DB 9; Length 359;
Best Local Similarity 42.8%; Pred. No. 6.9e-50;
Matches 133; Conservative 59; Mismatches 106; Indels 13; Gaps 9;

QY 55 STKDYEFETIILVWVWPFQGTFDLTSCQAMF-NIOGCHLTTPDRSLYNSKSHAVLIHHRDI 113
DB 53 SGTGPAHSIPILVWVWPFHPIPVALLSRCESEVPGTADCHITADRKVYQPADVIYVHHREV 112
QY 114 SMD-LTNLPQAPPPQKMTAMNLESPTHPQKSGIEHLFNLITLRSDIQVYGLTY-STNPF 172
DB 113 MYNSAQLPSPRQGGQKMTAMNLESPTHPQKSGIEHLFNLITLRSDIQVYGLTY-STNPF 172

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0Y      173 V-STNPF--VEFEVPEKSLGCVWVSNNMNEPHARYVYVELSKSTEIHTHYGAOFGFYNDK 229
        | | : : : : : | | | | | | | | | | | | : : : : :
Db      173 FWSGOPAHPPLNLSTKTLLVAWAASNMGPNSARARYTOSLALHKLVDYGRSH -RPLEOG 231

0Y      230 NLPIPSACKFYLSENSIHHDYITEKLY-NAFLAGSPVVLGSPRENYENYIPADSFTH 288
        :: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      232 TWMEETLSKYKFPLAFENSLHPDYITEKLMRNALEMAVPVVLGSPRSMYERLPDPADIH 291

0Y      289 VEDIYSSELAKYLEVDKNKKLYISTYNRRKDFTVNLP-R-FWESHACLCDHYKRHOE 346
        | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db      292 VDDFPSXPDLARYLOELDKDHARYLSYFRMETLR---PRFSFWALAFCKACWKQLQEEESR 348

0Y      347 KKSVCNLEKF 357
        | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db      349 YOTRG-TAAWF 358

RESULT 9
US-09-863-475A-14
: Sequence 14, Application US/09863475A
: Patent No. US20020102688A1
: GENERAL INFORMATION:
: APPLICANT: LOWE, JOHN B.
: TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
: OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
: GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
: OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 Jefferson Davis Highway, Fourth Floor
City: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/863,475A
FILING DATE: 24-May-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/914,281
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Lavalleye, Jean-Paul M. P.
REGISTRATION NUMBER: 31,451
REFERENCE/DOCKET NUMBER: 2363-060-55
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 359 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-863-475A-14

Query Match          33.6%; Score 662.5; DB 10; Length 359;
Best Local Similarity 42.8%; Pred. No. 6,9e-50;
Matches 133; Conservative 59; Mismatches 106; Indels 13; Gaps 9;

0Y      55 STKDIYFNETIIIVAWFEGQTLDTSQAMF-NIQCGHLTTDRSLYKXSAVALIHHRDI 113
        ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
53      STGTFAHSIFILTLMTWFKNPIALPCSESWPGTADCNITADRKRVPYQADAVALVHNREV 112

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Qy	114	SMD	LTINLPQOARPPFOKIMIMNLSPTHTPOKSGIEHLFNLTITRRSDIOVPRGFLT	172
Db	113	MNPSAOLPRSPRRGQORWIMFESMESPSHCWLKAMDGFNITMYSRSDIFTPGWMLE	172	
Qy	173	V-STNPF--VFEPVPSKEKLYCWNVSNMNPENHARVKYKYNELSKSIEIHTHTGOAFGEVYNK	229	
Db	173	PMSGCPAHPRLMLSAKTELAVAMAVSNMGNRSARVRYTOSLOHLKADYGRSH-KPLPOG	231	
Qy	230	NLIPIISACKFYLSFENSIMHKDYITEKLY-NAFLAGSVYVLPVGSRENEYIPADSFTH	288	
Db	232	TMMETLSRYKFLAVENSJHPDYITEKLMRNLLEMAAVYVLPVGSNSYNERFLPPAFIH	291	
Qy	289	VEDIVSPSELAKYIEVDKNNKLYLSTFENWRKDFYVNLPR--FWESHACLADCHVKRHOE	346	
Db	292	VDDFOSPDRLARYLELDLDHARYLSTFENWRKDFYVNLPR--PRSEFWALAFCKACWKLOEER	348	
Qy	347	YKSVGNLEKMF	357	
Db	349	YOTRG-IAAMF	358	
RESULT 10				
US-09-733-524-6				
Sequence 6, Application US/09733524				
Patent No. US20020068347A1				
GENERAL INFORMATION:				
APPLICANT: The Governors of the University of Alberta, a Canada Corporation				
APPLICANT: Taylor, Diane E.				
APPLICANT: Ge, Zhongming				
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3				
TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND				
TITLE OF INVENTION: EXPRESSING THEM				
FILE REFERENCE: 07254/049002				
CURRENT APPLICATION NUMBER: US/09/733,524				
CURRENT FILING DATE: 2000-12-14				
PRIOR APPLICATION NUMBER: 09/092,315				
PRIOR FILING DATE: 1998-06-05				
PRIOR APPLICATION NUMBER: 60/048,857				
PRIOR FILING DATE: 1997-06-06				
NUMBER OF SEQ ID NOS: 20				
SOFTWARE: FastSeq for Windows Version 4.0				
SEQ ID NO 6				
LENGTH: 358				
TYPE: PRT				
ORGANISM: Homo sapiens				
FEATURE:				
NAME/KEY: PEPTIDE				
LOCATION: (0)...(0)				
OTHER INFORMATION: Helicobacter pylori fucosyltransferase - HfucT6				
US-09-733-524-6				
Query Match				
Best Local Similarity 33.5%; Score 659; DB 10; Length 358;				
Matches 134; Conservative 59; Mismatches 104; Indels 14; Gaps 10;				
Qy	55	STKTDYFNETITLLVWVPRGQTFDLTSCQAM-NTIOGCHLTDRSLYNSHVLINHRDI	113	
Db	53	STGTFAHSIPRLTLMTWPRNKPLALRPGSEAWRGTAQDITFADKRYYPQADAVIYHNRVY	112	
Qy	114	SMD-LTINLPQOARPPFOKIMIMNLSPTHTPOKSGIEHLFNLTITRRSDIOVPRGFLT	172	
Db	113	MNPSAOLPRSPRRGQORWIMFESMESPSHCWLKAMDGFNITMYSRSDIFTPGWMLE	172	
Qy	173	V-STNPF--VFEPVPSKEKLYCWNVSNMNPENHARVKYKYNELSKSIEIHTHTGOAFGEVYNK	229	
Db	173	PMSGCPAHPRLMLSAKTELAVAMAVSNMGNRSARVRYTOSLOHLKADYGRSH-KPLPOG	231	
Qy	230	NLIPIISACKFYLSFENSIMHKDYITEKLY-NAFLAGSVYVLPVGSRENEYIPADSFTH	288	
Db	232	TMMETLSRYKFLAVENSJHPDYITEKLMRNLLEMAAVYVLPVGSNSYNERFLPPAFIH	291	
Qy	289	VEDIVSPSELAKYIEVDKNNKLYLSTFENWRKDFYVNLPR--FWESHACLADCHVKRHOE	346	
Db	292	VDDFOSPDRLARYLELDLDHARYLSTFENWRKDFYVNLPR--PRSEFWALAFCKACWKLOEER	348	
Qy	347	YKSVGNLEKMF	357	
Db	349	YOTRG-IAAMF	358	

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Page 8

QY 88 IOGCHITTRSLXNKSNAVLIHHRDISMDLTNLPOQARPPFOKWIWMNLESPTHTPOKSG 147
Db 115 FR-----DRYLMPLLYDRLHKKAESVNDTAPYKIGN---SLYTLKPSHCFK--- 161
QY 148 IEHLFNLITLYRRSDIOVPYGFIVSTNPVEVPEVPSKEKLVQWVSVNNMPEHARVYKYN 207
Db 162 -ENHPNLCLINNESD-----PLKRGFASFVASNANAP-MRNAFYD 200
QY 208 ELKSIEIHTYGOA---FGEYVNDKNLIPTISACKFYLSFENSIRKDYITERLYNAFLA 263
Db 201 ALN-SIEPYTGGGAVKNTLGYKVGKNS--EPLSOYKFNLCFENSOGGYVTEKIIDAYS 257
QY 264 GSPVYVLGSPRENYENIPADSFIVHEDYNSPSELAKYLKEVDKNNKLYL 313
Db 258 HTIPYWG-SPSVAKDFNP-KSFVNVDHFNFDIDAIDYVRYLHTHPNAYL 305

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Job time : 9.5 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 16:02:04 ; Search time 139.5 Seconds
(without alignments)
1659.206 Million cell updates/sec

Title: US-09-744-748-2
Perfect score: 1970
Sequence: 1 MTSKGIIRPFLIVCIILG.....HVKRHQEKSYGNLEKMFVN 359

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues
Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/paa/US06.COMB.pep:*
3: /cgn2_6/ptodata/1/paa/US07.COMB.pep:*
4: /cgn2_6/ptodata/1/paa/US080.COMB.pep:*
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9: /cgn2_6/ptodata/1/paa/US085.COMB.pep:*
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12: /cgn2_6/ptodata/1/paa/US088.COMB.pep:*
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14: /cgn2_6/ptodata/1/paa/US090.COMB.pep:*
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16: /cgn2_6/ptodata/1/paa/US092.COMB.pep:*
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27: /cgn2_6/ptodata/1/paa/US60.COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1970	100.0	359	21	US-09-744-748-2
2	1961	99.5	359	21	US-09-744-748-1
3	792	40.2	356	1	PCT-US99-20354-7
4	792	40.2	356	25	US-10-120-319-12
5	792	40.2	356	25	US-10-189-977-12
6	769.5	39.1	355	21	US-09-733-524-8

	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
	703	703	689.5	688	688	687.5	687.5	687.5	685	675.5	674	673.5	667	667	667	667	667	667	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	659	653	653	653	653	643	637	636	636	619	619	619		
	35.7	35.7	35.0	34.9	34.9	34.9	34.9	34.9	34.9	34.8	34.3	34.2	34.2	33.9	33.9	33.9	33.9	33.9	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.5	33.1	33.1	33.1	33.1	32.3	32.3	32.3	31.4	31.4	31.4	31.4		
	433	433	405	352	352	352	352	352	352	352	352	352	352	352	352	352	352	352	359	359	359	359	359	359	359	359	358	308	308	308	308	306	306	306	306	306	306	306		
	25	25	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1	1	1	1	1	1	1	1	1	6	8	8	8	8	25	25	25	25	25	25	25	
	US-10-120-319-11	US-10-189-977-11	US-08-386-716-8	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	US-08-268-505-5	PCT-US01-14827-8406	PCT-US01-14827-8406	PCT-US01-14827-8406	PCT-US01-14827-8406	PCT-US01-14827-8406	PCT-US01-14827-8406	PCT-US01-14827-8406	PCT-US01-14827-8406	US-09-733-524-6	US-08-268-505-4	US-08-268-505-4	US-08-268-505-4	US-08-268-505-4	US-10-120-319-9	US-10-189-977-9	PCT-US99-20354-5	US-09-844-948-4	US-10-184-648-22	US-08-268-505-3	US-08-268-505-3	US-08-268-505-2	US-08-361-306A-2
	Sequence 11, Appl	Sequence 11, Appl	Sequence 8, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 5, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 8, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	Sequence 6, Appl	

ALIGNMENTS

RESULT 1
US-09-744-748-2
; Sequence 2, Application US/09744748
; GENERAL INFORMATION:
; APPLICANT: KYOMA HAKKO KOGYO CO., LTD.
; TITLE OF INVENTION: NOVEL PEPTIDE
; FILE REFERENCE: H10-0981N2
; CURRENT APPLICATION NUMBER: US/09/744,748
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: JPO998/213823
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 359
; TYPE: PRT
; ORGANISM: human
US-09-744-748-2

Query Match 100.0% Score 1970, DB 21; Length 359;
Best Local Similarity 100.0% Pred. 2.4e-185;
Matches 359; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 MTSKGIIRPFLIVCIILGCFMACILYIKPTNSIFSPMSASSVLKMKNFESKTDY 60
QY 61 FNETILVWVFGQTFDLTSCAMFNIOGCHLTDRSLYNNSHAVLHHRDISMDLTWL 120
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Page 2

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Db 61 FNETTILVWMPFGOTFDLTSCQAMFNIOGCHLITDRSLYKNSHAVLIHHRDISMDLTNL 120
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Db 121 PQOARPPQKWMNLESPTHTPOKSGIEHLNLTTRRSDIOVPGFELTVSTNPFV 180
OY 181 EVPSKEKLVCMVSNMNEBHARVYKYNELSKSIEIHTYGOAFGEYVNDKNIPTISACKF 240
Db 181 EVPSKEKLVCMVSNMNEBHARVYKYNELSKSIEIHTYGOAFGEYVNDKNIPTISACKF 240
OY 241 YLSFENSJHKDYITEKLYNAFLAGSVPVVLGFSRENENYIPADSFIVHEDYNSPSELAK 300
Db 241 YLSFENSJHKDYITEKLYNAFLAGSVPVVLGFSRENENYIPADSFIVHEDYNSPSELAK 300
OY 301 YLKEVDKNNKLYLSTYFNMRKDFVTNLPRFWESHACIADCHVRRHOEYKSVGNLEKMFVN 359
Db 301 YLKEVDKNNKLYLSTYFNMRKDFVTNLPRFWESHACIADCHVRRHOEYKSVGNLEKMFVN 359
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RESULT 2
US-09-744-748-1
; Sequence 1, Application US/09744748
; GENERAL INFORMATION:
; APPLICANT: KYOMA HAKKO KOGYO CO., LTD.
; TITLE OF INVENTION: NOVEL PEPTIDE
; FILE REFERENCE: H10-0981N2
; CURRENT APPLICATION NUMBER: US/09/744,748
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: JPO898/213823
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 359
; TYPE: PRT
; ORGANISM: Mouse
US-09-744-748-1
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Query Match 99.5%; Score 1961; DB 21; Length 359;
Best Local Similarity 99.2%; Pred. No. 1.8e-184;
Matches 356; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 MTSTSGILRPLIVCIILICGFMACLIYIKPTNSWIFSPMESASVLMKKNFESTKTDY 60
Db 1 MTSTSGILRPLIVCIILICGFMACLIYIKPTNSWIFSPMESASVLMKKNFESTKTDY 60
OY 61 FNETTILVWMPFGOTFDLTSCQAMFNIOGCHLITDRSLYKNSHAVLIHHRDISMDLTNL 120
Db 61 FNETTILVWMPFGOTFDLTSCQAMFNIOGCHLITDRSLYKNSHAVLIHHRDISMDLTNL 120
OY 121 PQOARPPQKWMNLESPTHTPOKSGIEHLNLTTRRSDIOVPGFELTVSTNPFV 180
Db 121 PQOARPPQKWMNLESPTHTPOKSGIEHLNLTTRRSDIOVPGFELTVSTNPFV 180
OY 181 EVPSKEKLVCMVSNMNEBHARVYKYNELSKSIEIHTYGOAFGEYVNDKNIPTISACKF 240
Db 181 EVPSKEKLVCMVSNMNEBHARVYKYNELSKSIEIHTYGOAFGEYVNDKNIPTISACKF 240
OY 241 YLSFENSJHKDYITEKLYNAFLAGSVPVVLGFSRENENYIPADSFIVHEDYNSPSELAK 300
Db 241 YLSFENSJHKDYITEKLYNAFLAGSVPVVLGFSRENENYIPADSFIVHEDYNSPSELAK 300
OY 301 YLKEVDKNNKLYLSTYFNMRKDFVTNLPRFWESHACIADCHVRRHOEYKSVGNLEKMFVN 359
Db 301 YLKEVDKNNKLYLSTYFNMRKDFVTNLPRFWESHACIADCHVRRHOEYKSVGNLEKMFVN 359
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RESULT 3
PCT-US99-20354-7
; Sequence 7, Application PC/TUS9920354
; GENERAL INFORMATION:
; APPLICANT: Cummings, Richard D.
; APPLICANT: Nyame, Anthony Kwame
```

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APPLICANT: Debose-Boyd, Russell
TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES ENCODING
TITLE OF INVENTION: FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMALS
TITLE OF INVENTION: INCORPORATING SAME
FILE REFERENCE: 617313-6
CURRENT APPLICATION NUMBER: PCT/US99/20354
CURRENT FILING DATE: 1999-09-03
EARLIER APPLICATION NUMBER: 60/098,922
EARLIER FILING DATE: 1999-09-03
NUMBER OF SEQ ID NOS: 21
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 356
TYPE: PRT
ORGANISM: Caenorhabditis elegans
FEATURE:
OTHER INFORMATION: CFT-1
PCT-US99-20354-7
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Query Match 40.2%; Score 792; DB 1; Length 356;
Best Local Similarity 50.3%; Pred. No. 7e-69;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

OY 63 ETTILVWMPFGOTFDLTSCQAMFNIOGCHLITDRSLYKNSHAVLIHHRDISMDLTNL 121
Db 56 ETVLLMWEPFGPRMPADCCRRRYNTGCLLSADRGYGEARAVLFHHRDLALHGRGLP 115
OY 122 Q-QARPPQKWMNLESPTHTPOKSGIEHLNLTTRRSDIOVPGFELTVSTNPFV 179
Db 116 RGPPRPPQKWMNLESPTHTPOKSGIEHLNLTTRRSDIOVPGFELTVSTNPFV 175
OY 180 FEVPSKEKLVCMVSNMNEBHARVYKYNELSKSIEIHTYGOAFGEYVNDKNIPTISACK 239
Db 176 FVLPKRSRLVAVISNMNEBHARVYKYNELSKSIEIHTYGOAFGEYVNDKNIPTISACK 234
OY 240 YLSFENSJHKDYITEKLYNAFLAGSVPVVLGFSRENENYIPADSFIVHEDYNSPSEL 298
Db 235 FYLAFENSJHKDYITEKLYNAFLAGSVPVVLGFSRENENYIPADSFIVHEDYNSPSEL 294
OY 299 AKYKEVDKNNKLYLSTYFNMRKDFVTNLPRFWESHACIADCHVRRHOEYKSVGNLEKMF 357
Db 295 ATYKLEVDKNNKLYLSTYFNMRKDFVTNLPRFWESHACIADCHVRRHOEYKSVGNLEKMF 354
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RESULT 4
US-10-120-319-12
; Sequence 12, Application US/10120319
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/120,319
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/092,315
; PRIOR FILING DATE: EARLIER APPLICATION NUMBER: 1998-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-06
; SOFTWARE: FastSeq for Windows Version 3.0
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-120-319-12
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Query Match 40.2%; Score 792; DB 25; Length 356;
Best Local Similarity 50.3%; Pred. No. 7e-69;
Matches 151; Conservative 50; Mismatches 93; Indels 6; Gaps 5;

OY 63 ETTILVWMPFGOTFDLTSCQAMFNIOGCHLITDRSLYKNSHAVLIHHRDISMDLTNL 121
Db 56 ETVLLMWEPFGPRMPADCCRRRYNTGCLLSADRGYGEARAVLFHHRDLALHGRGLP 115
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Db 92 VLLWMEPFGRGCGYPKSPDCLRFNISCRLITDRAYGEOAVLFFHNRDLVKELDWP 151
122 QQ-----ARPFQKIMWMLSPHTPOKSG 147
Db 152 PMGAREERTDKALVLRVDDOEGAVLTGKALETVGSRPGQRMVWMMNFESPHTGLRG 211
148 I-EHLFNLTLYRRSDIOVPYGFILVSTNPFEEVPS-----KEKLVCVWVSNMP 198
Db 212 LADLFNWLITSTRTDSVFPYGFILYRSRDP--TEOPSGGIPOLARRKGLVAVVSNMNE 269
199 EHARVRYYNELSKSIEIHITYGQAF-GEYVNDKNIPIISACKFYLSPEHSIHKDYITEKL 257
270 HQARVRYHOLSRHVSVDVFGRTGPRPAIGLLHTVARKFYLAENSRHVDYITEKL 329
258 Y-NAFLAGSVPVVILGSPREYENYIPADSFIVHEDYNSPELAKYLEKVDKNKLYLSYF 316
330 WRNAFLAGAVPVVILGPDRAVYERFVPGAFIHVDDFPNAAVLAAYLLFLDRNAVYRRYF 389
QY 317 NMRKDEFTVNLPRFESHACLDHVKRH-OEYKSVGNLEKMF 357
Db 390 RMRRSFAVHITSFWDQWCRTCQAVOTSGDQPKSIHNLADMF 431

RESULT 8
US-10-189-977-11
; Sequence 11, Application US/10189977
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/10/189,977
; CURRENT FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: US/09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-189-977-11

Query Match 35.7%; Score 703; DB 25; Length 433;
Best Local Similarity 42.4%; Pred. No. 5.8e-60;
Matches 145; Conservative 49; Mismatches 96; Indels 52; Gaps 8;
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RESULT 9
US-08-386-716-8
; Sequence 8, Application US/08386716
; GENERAL INFORMATION:
; APPLICANT: Matzele, Gabriele
; APPLICANT: Berger, Eric G.
; APPLICANT: Matzele, Bernd
; APPLICANT: Matzele, Manfred
; TITLE OF INVENTION: Improved Process for the Production of
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,716
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/193,987
; FILING DATE:
; APPLICATION NUMBER: US/07/891,525
; FILING DATE: 29-MAY-1992
; APPLICATION NUMBER: DE 91810414.2
; FILING DATE: 31-MAY-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE 92810167.4
; FILING DATE: 04-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9208211.4
; FILING DATE: 14-APR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Foley, Shawn P.
; REGISTRATION NUMBER: 33,071
; REFERENCE/DOCKET NUMBER: 4-18658/A/BEG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 405 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-386-716-8

Query Match 35.0%; Score 689.5; DB 7; Length 405;
Best Local Similarity 38.5%; Pred. No. 1.1e-58;
Matches 153; Conservative 60; Mismatches 109; Indels 75; Gaps 14;
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Db 69 WMPFGRSARPPDCLRFNISCRLTDRASYGEAQAFLHHRDLVKGPDPMPW 128
QY 116 -----DLNLPQO-----ARPFQKWNWNLSPRTTP-QKSGIEHL 151
Db 129 GLOAHAEVDRLVDLYEAAAAAALATSSPPRGQWVWNNFESPSHSGLRSLASNL 188
QY 152 FNLTLTRDSDIOVYGFGLTVSTNPFVEVPS-----KEXLVQWVSWMNPENHARV 203
Db 189 FFWTLSTRSDSVFVYGYGLYRSHR--GDPPSGLAPLSRKQGLVAVWVSHWDERQARV 246
QY 204 KYNNELSKSIEHTYGOAF-GEVYNDKNIPTISACKFYLSENSIHNDYTEKLY-NAF 261
Db 247 RYHQLSQHVTVDVFGRGSGQVPPEIGLHTVARKFYLAFENSQHLDTYTEKLMRNAL 306
QY 262 LAGSVPVVYGPSPRENEYIPADSFTHVEDYNSPSELAKYLEVDKNNKLYLSTFNMKRD 321
Db 307 LAGAVPVVYGPDRANERYRPGAFTHVDPFSSASSLASYLLFLDRNPVYRRTFHWRRS 366
QY 322 FTVNLPREWEHSHACLADHVKRHOEY-KSVGNLEKWF 357
Db 367 YAVHITSFWEPCWCRVCAVQVORAGDRPKSIRNLASWF 403

RESULT 14
US-09-863-475A-8

; Sequence 8, Application US/09863475A

; GENERAL INFORMATION:

; APPLICANT: LOME, JOHN B.

; TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS

; OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,

; GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION

; OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURES

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESSES:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,

; P.C.

; STREET: 1755 Jefferson Davis Highway, Fourth Floor

; CITY: Arlington

; STATE: Virginia

; COUNTRY: U.S.A.

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/863,475A

; FILING DATE: 24-May-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/914,281

; FILING DATE: 20-JUL-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Lavalleye, Jean-Paul M. P.

; REGISTRATION NUMBER: 31,451

; REFERENCE/DOCKET NUMBER: 2363-060-55

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703)521-4500

; TELEFAX: (703)486-2347

; TELEX: 248855 OPAT UR

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 405 amino acids

; TYPE: amino acid

; TOPOLOGY: unknown

; MOLECULE TYPE: protein

; SEQUENCE DESCRIPTION: SEQ ID NO: 8:

US-09-863-475A-8

Query Match 34.9%; Score 687.5; DB 22; Length 405;
Best Local Similarity 38.5%; Pred. No. 1.8e-58;
Matches 153; Conservative 59; Mismatches 110; Indels 75; Gaps 14;

QY 15 VCIILGCFMAC--LLIYI-----KPTNSWIFSPMESASVLLKKKNFSTKTDYFNETTILV 68
Db 28 VCVLAAGLTCALITALITYAACWGLPLPMA-SPTPS-----RRPGVLL 68
QY 69 WMPFGRQTFDL-----TSCAMFNIOGCHLTDRSLYKSHAVLIHHRDI-----SW----- 115
Db 69 WMPFGRSARPPDCLRFNISCRLTDRASYGEAQAFLHHRDLVKGPDPMPW 128
QY 116 -----DLNLPQO-----ARPFQKWNWNLSPRTTP-QKSGIEHL 151
Db 129 GLOAHAEVDRLVDLYEAAAAAALATSSPPRGQWVWNNFESPSHSGLRSLASNL 188
QY 152 FNLTLTRDSDIOVYGFGLTVSTNPFVEVPS-----KEXLVQWVSWMNPENHARV 203
Db 189 FFWTLSTRSDSVFVYGYGLYRSHR--GDPPSGLAPLSRKQGLVAVWVSHWDERQARV 246
QY 204 KYNNELSKSIEHTYGOAF-GEVYNDKNIPTISACKFYLSENSIHNDYTEKLY-NAF 261
Db 247 RYHQLSQHVTVDVFGRGSGQVPPEIGLHTVARKFYLAFENSQHLDTYTEKLMRNAL 306
QY 262 LAGSVPVVYGPSPRENEYIPADSFTHVEDYNSPSELAKYLEVDKNNKLYLSTFNMKRD 321
Db 307 LAGAVPVVYGPDRANERYRPGAFTHVDPFSSASSLASYLLFLDRNPVYRRTFHWRRS 366
QY 322 FTVNLPREWEHSHACLADHVKRHOEY-KSVGNLEKWF 357
Db 367 YAVHITSFWEPCWCRVCAVQVORAGDRPKSIRNLASWF 403

RESULT 15
US-08-657-215A-2

; Sequence 2, Application US/08657215A

; GENERAL INFORMATION:

; APPLICANT: Sullivan, Francis; Shaffer, Mary; Kriz, Ron;

; TITLE OF INVENTION: CHO Fucosyltransferases

; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESSES:

; ADDRESSEE: Genetics Institute, Inc.

; STREET: 87 Cambridgepark Drive

; CITY: Cambridge

; STATE: MA

; COUNTRY: USA

; ZIP: 02140

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/657,215A

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Brown, Scott A.

; REGISTRATION NUMBER: 32,724

; REFERENCE/DOCKET NUMBER: G15251

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 498-8224

; TELEFAX: (617) 876-5851

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 362 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-657-215A-2

Query Match 34.8%; Score 685; DB 10; Length 362;
Best Local Similarity 41.1%; Pred. No. 2.7e-58;
Matches 147; Conservative 66; Mismatches 125; Indels 20; Gaps 10;

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OY 10 RPELIVCIILGCFMACILIIYIKPTNSWIFSPMESASSVLKMKNEFSTKTDYF-NETTILV 68
Db 14 RPLIGLILLOLFLALCFEFXYIRVSHDOPGPAPDSSST----GPASPTTPVPRPFLILL 68
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Db 69 WWPFGOTFDTSCQAMF-NIOGCHLTDRSLYNKSHAVLIHHRDISWDLTN-LPOQARP 126
OY 127 PROKIMMNEESPHTPOKSGIEHLFTLTYRSDIOVPGFLVSTNPFY--FEVP 183
Db 129 PGORWVWFSLESFHSICRSLALDGYFNLMSYKSDSDIFTFTGWLPEWAEPPVQTOYNMS 188
OY 184 SKERLYCWNYSNNNPEHARKYKYNELSKSIEIHTYGOAFGEYVNDKNLIPTISACKFYS 243
Db 189 AKTDLVAMAVSNNMPSARVLYOKLOSHLHVDYVYGRGHP-LSRGDMGTLLARYKFFYL 247
OY 244 FENSIRKDYITERLY-NAFLAGSVPVVLGSPRENYENIPADSFIVHEDYNSPSELAKYL 302
Db 248 FENSIRKDYITERLY-NAFLAGSVPVVLGSPRENYENIPADSFIVHEDYNSPSELAKYL 302
OY 303 KEYDKNNKLYLSYFNMRKDFTVNLPRFWESHA---CIACDHVKKRHOEYKSVGNLEKWF 357
Db 308 OKLDKDSQSYORFYFRMGETLR--PRL-SMALAFQACRQLOMDQRYQTVHSVASWF 361

Search completed: November 20, 2002, 16:09:23
Job time : 140.5 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 20, 2002, 16:02:29 ; Search time 9 Seconds
(without alignments)
1350.856 Million cell updates/sec

Title: US-09-744-748-2

Perfect score: 1970
Sequence: 1 MTSSTSGILRPFLIVCIILG.....HYKRHOEYKSYGNLEKMFVN 359

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 96903 seqs, 33865481 residues

Total number of hits satisfying chosen parameters: 96903

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New:*
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	96.5	4.9	364	US-10-131-813A-186	Sequence 186, App
2	96.5	4.9	364	US-10-131-819A-186	Sequence 186, App
3	96.5	4.9	364	US-10-131-823A-186	Sequence 186, App
4	96.5	4.9	364	US-10-131-824A-186	Sequence 186, App
5	96.5	4.9	364	US-10-131-826A-186	Sequence 186, App
6	96.5	4.9	364	US-10-131-828A-186	Sequence 186, App
7	96.5	4.9	364	US-10-125-926A-186	Sequence 186, App
8	96.5	4.9	364	US-10-127-831A-186	Sequence 186, App
9	96.5	4.9	364	US-10-127-835A-186	Sequence 186, App
10	96.5	4.9	364	US-10-127-837A-186	Sequence 186, App
11	96.5	4.9	364	US-10-127-842A-186	Sequence 186, App
12	96.5	4.9	364	US-10-127-850A-186	Sequence 186, App
13	96.5	4.9	364	US-10-127-901A-186	Sequence 186, App
14	96.5	4.9	364	US-10-128-689A-186	Sequence 186, App
15	96.5	4.9	364	US-10-131-830A-186	Sequence 186, App
16	96.5	4.9	364	US-10-131-833A-186	Sequence 186, App
17	96.5	4.9	364	US-10-131-837A-186	Sequence 186, App
18	96.5	4.9	364	US-10-125-930A-186	Sequence 186, App
19	96.5	4.9	364	US-10-127-825A-186	Sequence 186, App
20	96.5	4.9	364	US-10-127-838B-186	Sequence 186, App
21	96.5	4.9	364	US-10-127-843A-186	Sequence 186, App
22	96.5	4.9	364	US-10-127-849A-186	Sequence 186, App
23	96.5	4.9	364	US-10-128-684A-186	Sequence 186, App
24	96.5	4.9	364	US-10-128-685A-186	Sequence 186, App
25	96.5	4.9	364	US-10-128-686A-186	Sequence 186, App
26	96.5	4.9	364	US-10-128-686A-186	Sequence 186, App

27	96.5	4.9	364	US-10-128-690A-186	Sequence 186, App
28	96.5	4.9	364	US-10-128-693A-186	Sequence 186, App
29	96.5	4.9	364	US-10-131-821A-186	Sequence 186, App
30	96.5	4.9	364	US-10-131-836A-186	Sequence 186, App
31	96.5	4.9	364	US-10-137-872A-186	Sequence 186, App
32	96.5	4.9	364	US-10-137-873A-186	Sequence 186, App
33	96.5	4.9	364	US-10-125-921A-186	Sequence 186, App
34	96.5	4.9	364	US-10-125-928A-186	Sequence 186, App
35	96.5	4.9	364	US-10-127-821A-186	Sequence 186, App
36	96.5	4.9	364	US-10-127-822A-186	Sequence 186, App
37	96.5	4.9	364	US-10-127-824A-186	Sequence 186, App
38	96.5	4.9	364	US-10-127-827A-186	Sequence 186, App
39	96.5	4.9	364	US-10-127-830A-186	Sequence 186, App
40	96.5	4.9	364	US-10-127-832A-186	Sequence 186, App
41	96.5	4.9	364	US-10-127-834A-186	Sequence 186, App
42	96.5	4.9	364	US-10-127-836A-186	Sequence 186, App
43	96.5	4.9	364	US-10-127-839A-186	Sequence 186, App
44	96.5	4.9	364	US-10-127-840A-186	Sequence 186, App
45	96.5	4.9	364	US-10-127-841A-186	Sequence 186, App

ALIGNMENTS

RESULT 1
US-10-131-813A-186
; Sequence 186, Application US/10131813A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C139
; CURRENT APPLICATION NUMBER: US/10/131, 813A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186

PRIOR FILING DATE: 1997-09-19
 Remaining Prior Application data removed - See File Wrapper or PALM
 NUMBER OF SEQ ID NOS: 550
 SEQ ID NO 186
 LENGTH: 364
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-10-131-823A-186

Query Match	4.98;	Score	96.5;	DB	6;	Length	364;
Best Local Similarity	24.68;	Pred.	No. 0.5;				
Matches	56;	Conservative	32;	Mismatches	89;	Indels	51;
						Gaps	14;

```

OY 142 TPQSGGJEHEHLENTLU-----TYRRSDIDQVYGGFLVTATNFVEEVEPSKEKLYQWVYNNM 197
Db 24 TPQASATKALRNANLRRDDLDYRRDETQVQR-GNGYVQSPFPNPSYP-RNLLTWRLHSGE 81
OY 198 PEHARVRYNVELSKS-----TEIHTYGAQF-----GEYVNDKNLPTTISA--CKE 240
Db 82 NTRIQIVFNQFGLEAEANDICRDIPEVEDISPTSTIINGRMCGHKEVPRPKRSRNOI 141
OY 241 YLSEENSIIHKDYITE---KLINAFELAGSVPVVLGSPRENYENTIPADSTIHWEDYNSPS 296
Db 142 KITPKSD---DYFAKPGFKIYYSILEDFOPA--AASETNMES---VTSISGVSYNSPS 193
OY 297 -----ELAKYLEVDKNNKKIYLSYEN---WRKDF---VNLRF 329
Db 194 VTDEPLIADADLKKIASEDFVEDL-LKYFEPESQOEDLENNYVLDTPRY 240

```

US-10-131-824A-186
; Sequence 186, Application US/10131824A

```

1 GENERAL INFORMATION:
2 APPLICANT: Baker, Kevin P.
3 APPLICANT: Baresini, Maureen
4 APPLICANT: Deforge, Laura
5 APPLICANT: Desnoyers, Luc
6 APPLICANT: Filvaroff, Ellen
7 APPLICANT: Gao, Wei-Qiang
8 APPLICANT: Gerritsen, Mary E.
9 APPLICANT: Goddard, Audrey
10 APPLICANT: Godowski, Paul J.
11 APPLICANT: Gurney, Austin L.
12 APPLICANT: Sherwood, Steven
13 APPLICANT: Smith, Victoria
14 APPLICANT: Stewart, Timothy A.
15 APPLICANT: Tumas, Daniel
16 APPLICANT: Watanabe, Colin K
17 APPLICANT: Wood, William
18 APPLICANT: Zhang, Zemin
19 TITLE OF INVENTION: ACIDS ENCODING THE SAME
20 FILE REFERENCE: P3330R1C126
21 CURRENT APPLICATION NUMBER: US/10/131, 824A
22 CURRENT FILING DATE: 2002-04-24
23 PRIOR APPLICATION NUMBER: 60/049911
24 PRIOR FILING DATE: 1997-06-18
25 PRIOR APPLICATION NUMBER: 60/056974
26 PRIOR FILING DATE: 1997-08-26
27 PRIOR APPLICATION NUMBER: 60/059113
28 PRIOR FILING DATE: 1997-09-17
29 PRIOR APPLICATION NUMBER: 60/059115
30 PRIOR FILING DATE: 1997-09-17
31 PRIOR APPLICATION NUMBER: 60/059117
32 PRIOR FILING DATE: 1997-09-17
33 PRIOR APPLICATION NUMBER: 60/059122
34 PRIOR FILING DATE: 1997-09-17
35 PRIOR APPLICATION NUMBER: 60/059184
36 PRIOR FILING DATE: 1997-09-17
37 PRIOR APPLICATION NUMBER: 60/059263
38 PRIOR FILING DATE: 1997-09-18
39 PRIOR APPLICATION NUMBER: 60/059352

```

```

? PRIOR FILING DATE: 1997-09-19
? PRIOR APPLICATION NUMBER: 60/055588
? PRIOR FILING DATE: 1997-09-19
? Remaining Prior Application data removed - See File Wrapper or PALM
? NUMBER OF SEQ ID NOS: 550
? SEQ ID NO 186
? LENGTH: 364
? TYPE: PRT
? ORGANISM: Homo Sapien
? OS-10-131-824A-186

```

Query Match	4.9%	Score 96.5	DB 6	Length 364
Best Local Similarity	24.6%	Pred. No. 0.5		
Matches 56	Conservative 32	Mismatches 89	Indels 51	Gaps 14

```

QY      142  TPQSGSIEHLNLT---TYRSDSDIQLVPGFGLTSTNPFVEFVPEKELVGCWVSNM  157
      111 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      24  TPQGSATKLNANLRDRLYRDETIQVK-GNIVYOSPREPNYP-RNLLIYRHLSE  81
      111 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      198  PEHARVKYINELSKS-----IEIHTYGAF---GEVYDNKLIPTISA--CKP  240
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      82  NTRQLQVDPNGFGLAEANDICRDYFVEEDISITSLINGRMCGHKEVPRPKISRNQI  141
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      241  YLSEPNSTHKDYITE---KIYNAPLAGSVPVVLGSPRENTENYIPADSTIHWEDYNSPS  256
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      142  KITEKSD---DYFAVKPGFKIYYSLEDEQFA--ASESTWSES---VTSSISIGVSNPS  193
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      297  -----ELAKYLKEVDKNNKILYLSYFN--WRKPT---VALPWF  329
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      194  VTDEPTLLADALDKRIAEEDVIED-LAYFENESQEDLENNYITDTPXY  240
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

US-10-131-826A-186
; Sequence 186, Application US/10131826A

```

1  GENERAL INFORMATION:
2  APPLICANT: Baker, Kevin P.
3  APPLICANT: Beresini, Maureen
4  APPLICANT: Defoige, Laura
5  APPLICANT: Desnoyers, Luc
6  APPLICANT: Filvaroff, Ellen
7  APPLICANT: Gao, Wei-Qiang
8  APPLICANT: Gerritsen, Mary E.
9  APPLICANT: Goddard, Audrey
10 APPLICANT: Godowski, Paul J.
11 APPLICANT: Gurney, Austin L.
12 APPLICANT: Sherwood, Steven
13 APPLICANT: Smith, Victoria
14 APPLICANT: Stewart, Timothy A.
15 APPLICANT: Tumas, Daniel
16 APPLICANT: Watanabe, Colin K
17 APPLICANT: Wood, William
18 APPLICANT: Zhang, Zemin
19 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
20 FILE REFERENCE: P33030R1C128
21 CURRENT APPLICATION NUMBER: US/10/131,826A
22 CURRENT FILING DATE: 2002-04-24
23 PRIOR APPLICATION NUMBER: 60/049911
24 PRIOR FILING DATE: 1997-06-18
25 PRIOR APPLICATION NUMBER: 60/056974
26 PRIOR FILING DATE: 1997-08-26
27 PRIOR APPLICATION NUMBER: 60/059113
28 PRIOR FILING DATE: 1997-09-17
29 PRIOR APPLICATION NUMBER: 60/059115
30 PRIOR FILING DATE: 1997-09-17
31 PRIOR APPLICATION NUMBER: 60/059117
32 PRIOR FILING DATE: 1997-09-17
33 PRIOR APPLICATION NUMBER: 60/059122
34 PRIOR FILING DATE: 1997-09-17
35 PRIOR APPLICATION NUMBER: 60/059184
36 PRIOR FILING DATE: 1997-09-17
37 PRIOR APPLICATION NUMBER: 60/059263
38

```



```

PRIORITY FILLING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 186
LENGTH: 364
TYPE : PRT
ORGANISM: Homo Sapien
US-10-127-829A-186

Query Match      4.9%, Score 96.5; DB 6; Length 364;
Best Local Similarity    24.6%; Pred. No. 0.5;
Matches     56; Conservative   32; Mismatches    89; Indels    51; Gaps    14;

QY    142 TPQSGIHLNLTL-----TYRRSDIQVPGGLFVSNPFVEFYPSKEKLVCMWVSMMN 197
Db    24 TPQSISIALRNRANRRDDLYRRDETIQVK-GNGYOSPREPNSSYP-RNLLTWTLSHSE 81
QY    198 PEHARFKYYNELSKS-----IEHTYGAF----GEYVDKNLIPTISA--CKF 240
Db    82 NTRIDVLVDNPGLEALANDICRYDFEVEDISESTIRGRWCCHKVEPPRIKSRTNOI 141
QY    241 YLSEFNISHKDYTE---KLYNFLAGSVPVYLGSRENYENTIPADSFTHVEDNSPS 296
Db    142 KITFKSD--DYFAKPFGKITYSLLEDFOPA--AASETNMES---VTSSISGAVSNSPS 193
QY    297 -----ELAKYIKEDVNKKNKLYLSFN---WRKDT---VINPRF 329
Db    194 VTDPLTLDALDKRIAEPDVEDL-LKYFNESWOEDENNMYLDTPRY 240

RESULT 9
US-10-127-831A-186
Sequence 186, Application US/10127831A
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Guirney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330RIC107
CURRENT APPLICATION NUMBER: US/10/127,831A
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
```

```

? Prior Filling Date: 1997-09-17
? Prior Application Number: 60/059117
? Prior Filling Date: 1997-09-17
? Prior Application Number: 60/059122
? Prior Filling Date: 1997-09-17
? Prior Application Number: 60/059184
? Prior Filling Date: 1997-09-17
? Prior Application Number: 60/059263
? Prior Filling Date: 1997-09-18
? Prior Application Number: 60/059352
? Prior Filling Date: 1997-09-19
? Prior Application Number: 60/059588
? Prior Filling Date: 1997-09-19
? Remaining Prior Application data removed - See File Wrapper or PALM.
? Number of SEQ ID NOS: 550
? SEQ ID NO 186
? Length: 364
? Type: PRT
? Organism: Homo Sapien
? OS-10-127-831A-186

```

[illegible]

```

: RESULT 10
: US-10-127-835A-186
: Sequence 186, Application US/10127835A
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Beresini, Maureen
: APPLICANT: DeForge, Laura
: APPLICANT: Desnoyers, Luc
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gao, Wei-Olang
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Sherwood, Steven
: APPLICANT: Smith, Victoria
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tunas, Daniel
: APPLICANT: Watanabe, Colin K
: APPLICANT: Wood, William
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE
: POLYPEPTIDES AND NUCLEIC
: ACIDS ENCODED THE SAME
: FILE REFERENCE: P330R1C102
: CURRENT APPLICATION NUMBER: US/10/127, 835A
: CURRENT FILING DATE: 2002-10-15
: PRIOR APPLICATION NUMBER: 60/049911
: PRIOR FILING DATE: 1997-06-18
: PRIOR APPLICATION NUMBER: 60/056974
: PRIOR FILING DATE: 1997-08-26
: PRIOR APPLICATION NUMBER: 60/059113
:

```

```

? PRIOR FILLING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059115
? PRIOR FILLING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059117
? PRIOR FILLING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059122
? PRIOR FILLING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059184
? PRIOR FILLING DATE: 1997-09-17
? PRIOR APPLICATION NUMBER: 60/059263
? PRIOR FILLING DATE: 1997-09-18
? PRIOR APPLICATION NUMBER: 60/059352
? PRIOR FILLING DATE: 1997-09-19
? PRIOR APPLICATION NUMBER: 60/059588
? PRIOR FILLING DATE: 1997-09-19
? Remaining Prior Application data removed - See File Wrapper or PALM.
? NUMBER OF SEQ ID NOS: 550
? SEQ ID NO 186
? LENGTH: 364
? TYPE: PRT
? ORGANISM: Homo Sapien
? OS-10-127-835A-186

```

Query Match	4.9%	Score 96.5:	DB 6:	Length 364:
Best Local Similarity	24.6%	Pred. No. 0.5:		
Matches	56:	Conservative	32:	Mismatches 89: Indels 51: Gaps 14:

Oy	142	TPROKGEIHLNLT---	TYRSDIDYPGVGLIVSNPFEVPSKEKIVCWVSNWN	197
Db	24	TPQASIKALRNANIRDDLYRREDTIQYK	GNQVQSPRPNSIP	KNLLITWLSHQE 81
Oy	198	PEHAAVKYINELSKS-----	IEIHYYGAF-----	GEYVNDKLLIPISA -CKF 240
Db	82	NTRIDLVNOGGLDEAENDICRYFVEEDISFTIIRGMCCHKEPPRIKSRTOI		141
Oy	241	YLSEFNSIHKDYTE---	KLYNAFLAGSPVYLGPSPRENTENTYIPADSFTHVEDYNSPS	296
Db	142	KITEKSD--DYFAKPGFKIYLSLLEDFOPA--	AASETNMES--	VYSSISGVSNSPS 193
Oy	297	-----ELAKYLYEVDKNNKLYSYFN--	WRKDET--	VNLPRF 329
Db	194	YTDPLIADADLPDKIAEDFYEDL--	LKYFNPSWEDDENMYLDPRY	240


```

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C117
; CURRENT APPLICATION NUMBER: US/10/128,689A
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-128-689A-186

Query Match      4.9%; Score 96.5; DB 6; Length 364;
Best Local Similarity 24.6%; Pred. No. 0.5;
Matches 56; Conservative 32; Mismatches 89; Indels 51; Gaps 14;

QY 142 TPQKSGIEHLENTL---TYRDSIOVYGFLEVTSTNPFVEVPSKEKLVGVVSNMN 197
   ||| :|:|:| ||| ||| | | | :|:|:|
DB 24 TPQASIKALRNANLRDLYRDETIQV-KNGIVQSPRFNSYP-RNLLTWRLHSQE 81
   :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:|
QY 198 PEHARVYVYNELSKS-----IEIHTYGOAF---GEVYNDKNLIPTISA--CKF 240
   :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:|
DB 82 NTRIOLEVDNQFLEAENDICRYDFEVEDISETSTIRGRCWGHKEVPRIKSRNQI 141
   :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:|
QY 241 YLSFENSIRKDYITE---KLYNAFLAGSVPVYLGPSRENYETIPADSFIVHEDI NSPS 296
   :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:|
DB 142 KITFKSD--DYFVAKPGFKIYYSLEDFQPA--AASETNMES---VTSSISGVSYNSPS 193
   :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:| :|:|:|
QY 297 -----ELAKYLKEVDKNNKLYLSYFN---WRKQFT---VNLPRF 329
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 194 VTPTPLIADALDKKIAEFDVDEL-LKYNPESWQEDLENMYLDTPRY 240
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Search completed: November 20, 2002, 16:09:48
Job time : 11 secs

